

FIG. 1

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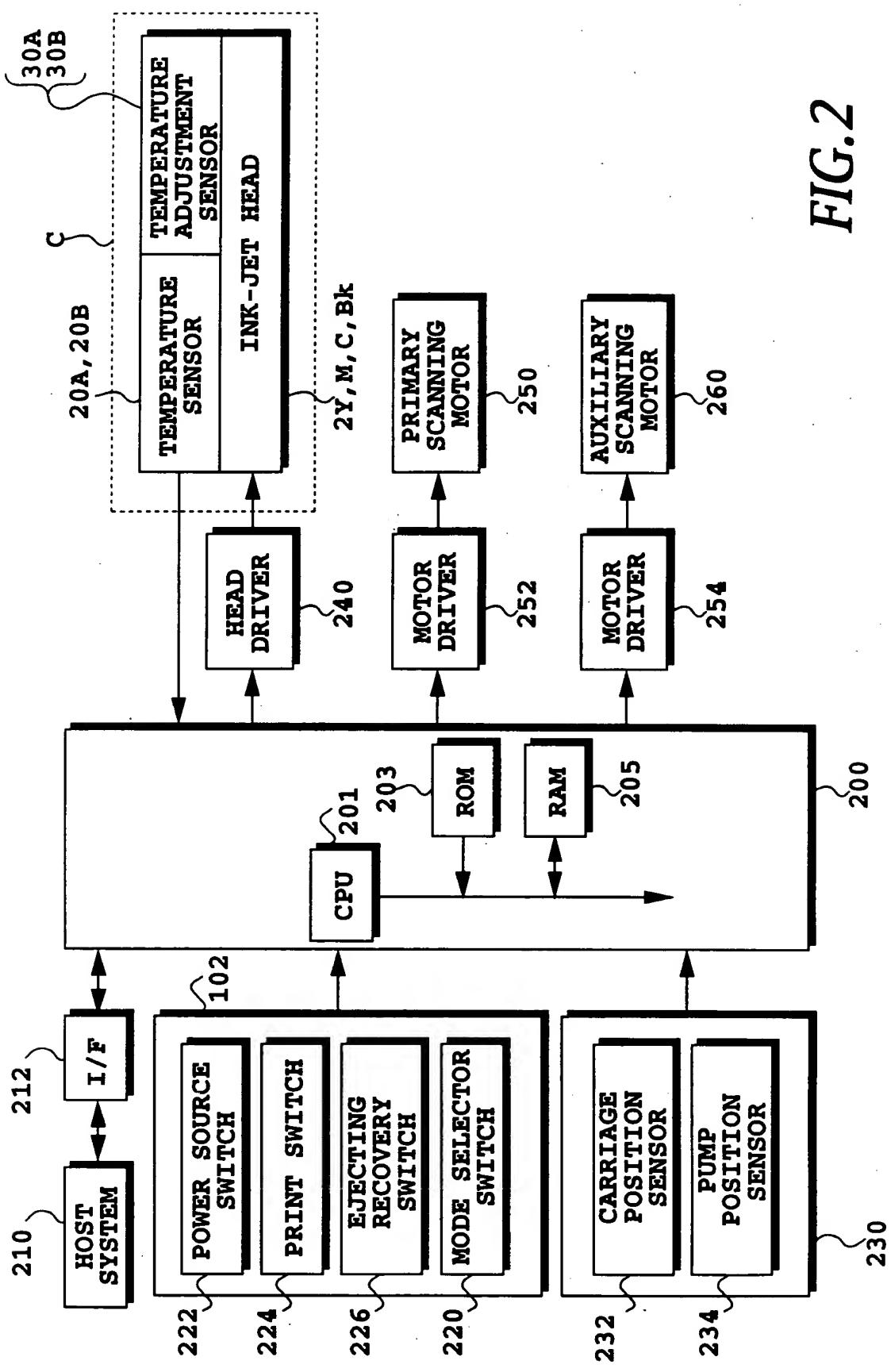


FIG.2

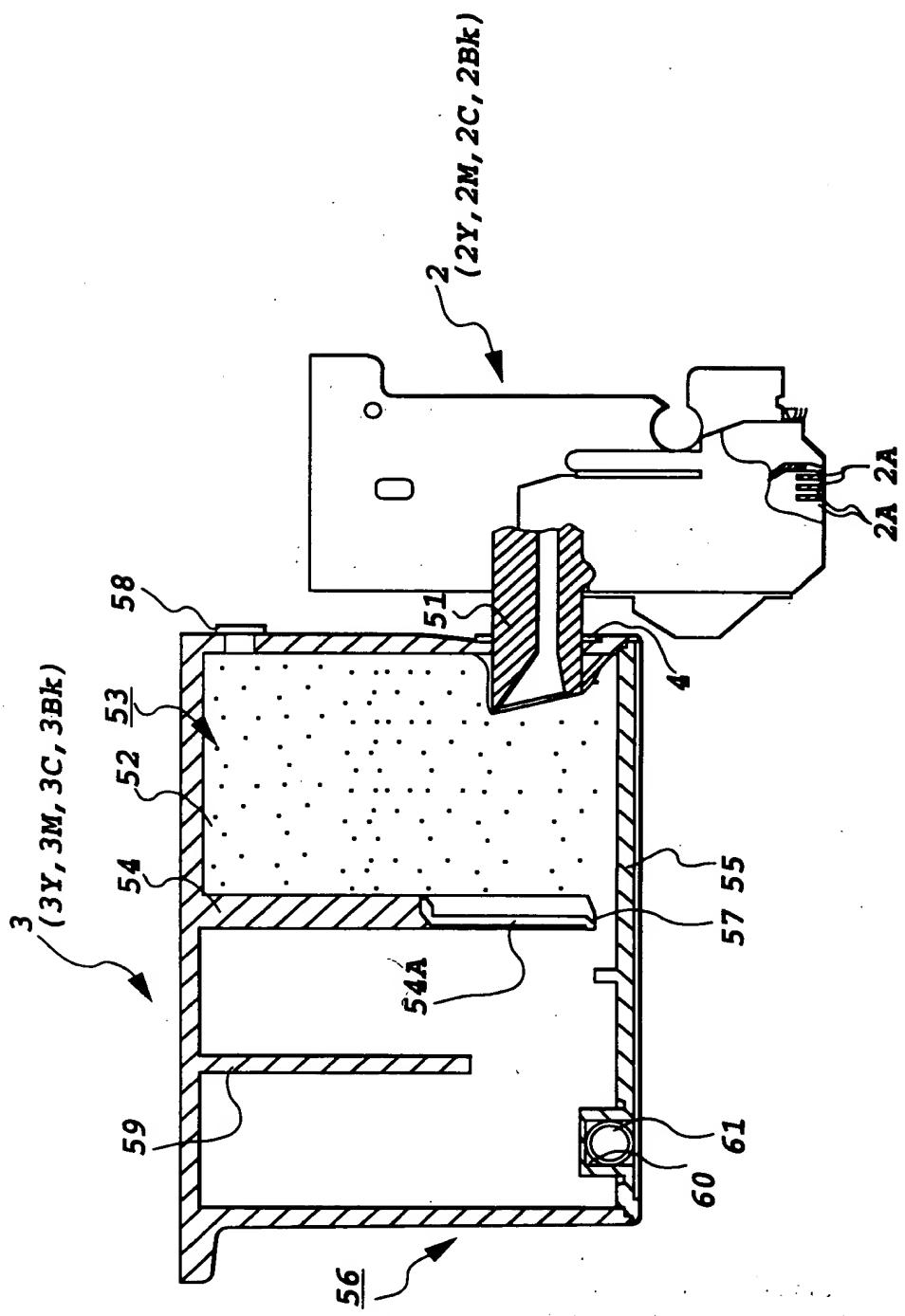


FIG. 3

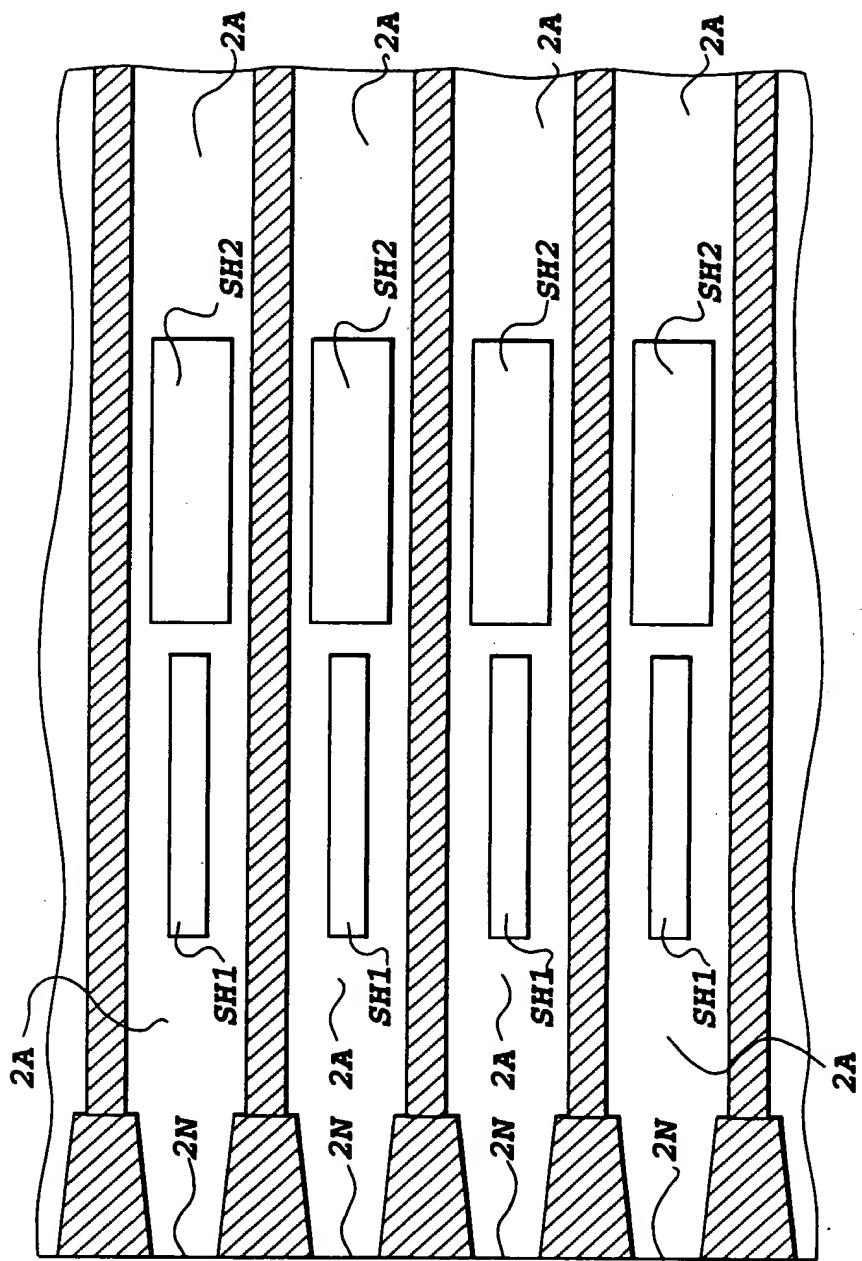


FIG. 4

FIG.5

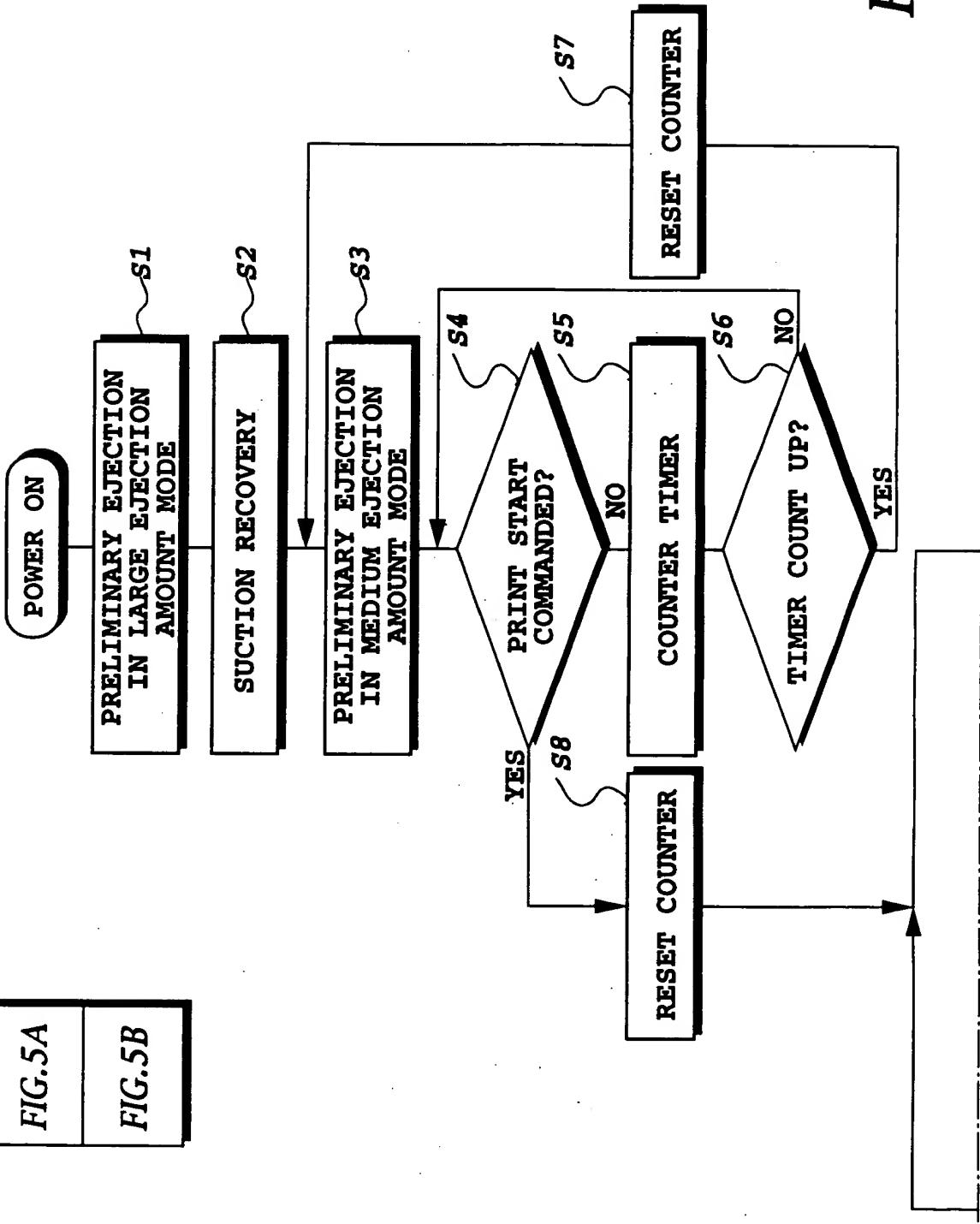
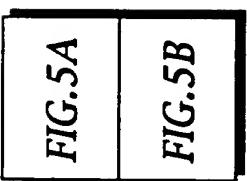


FIG.5A

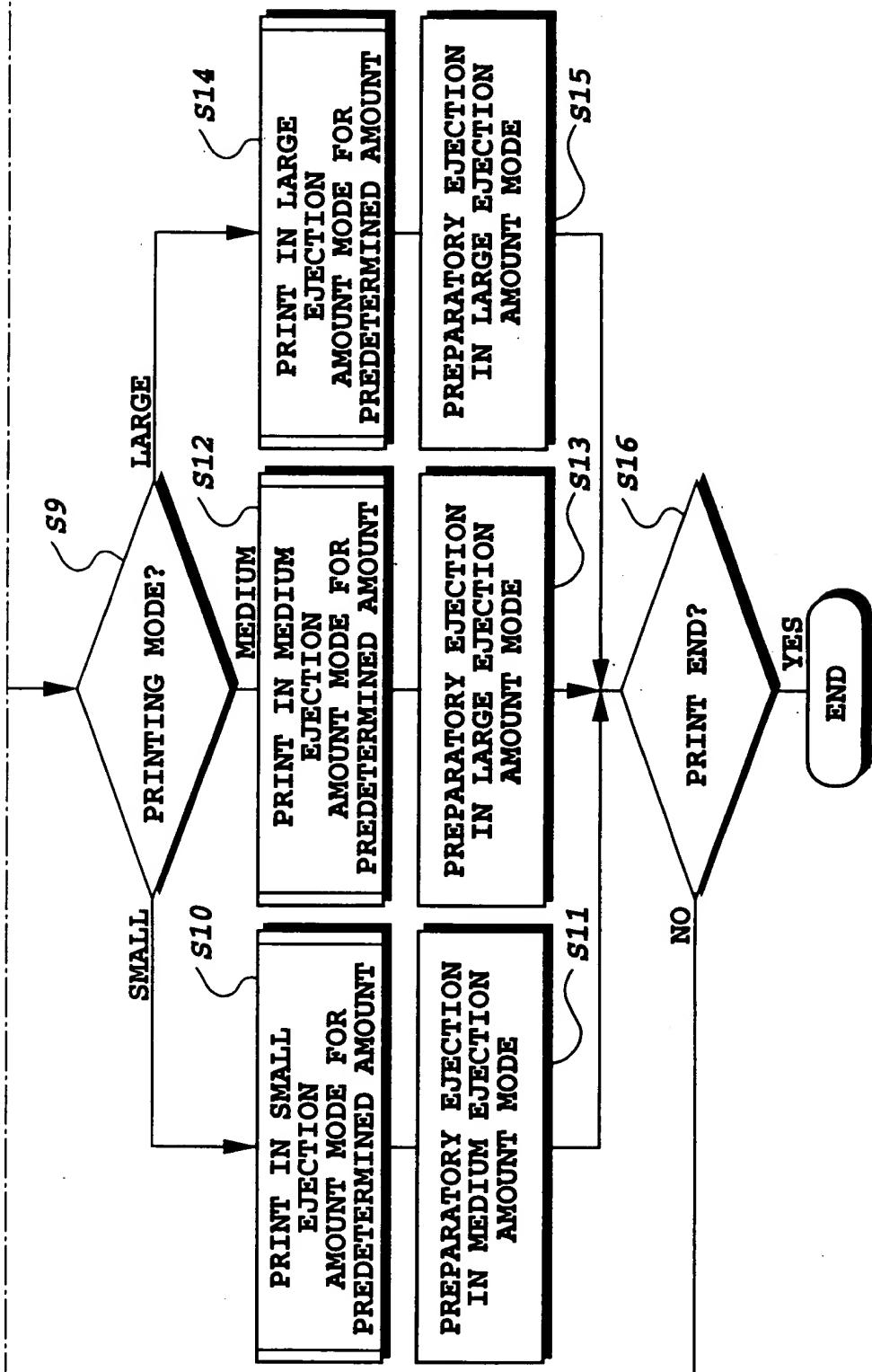


FIG 5B

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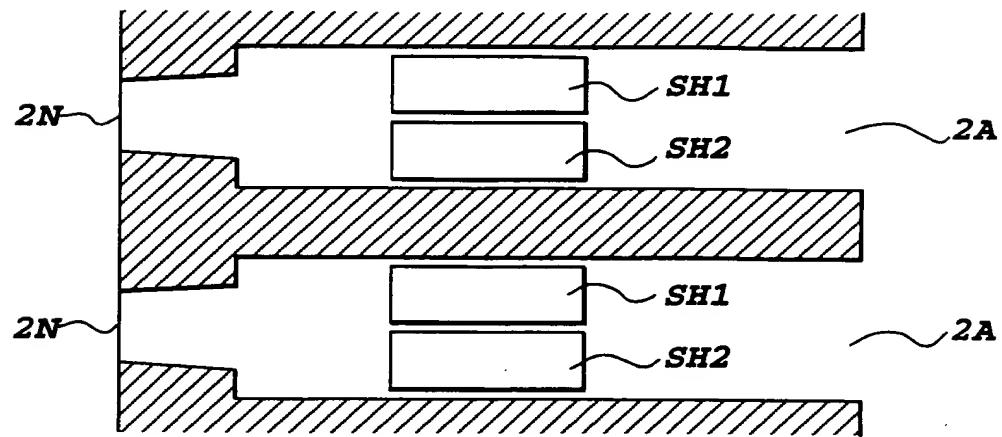


FIG.6A

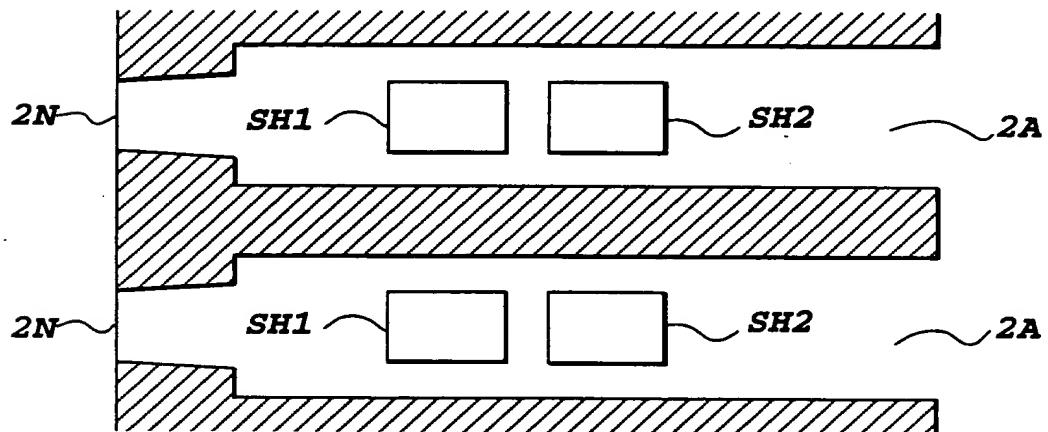
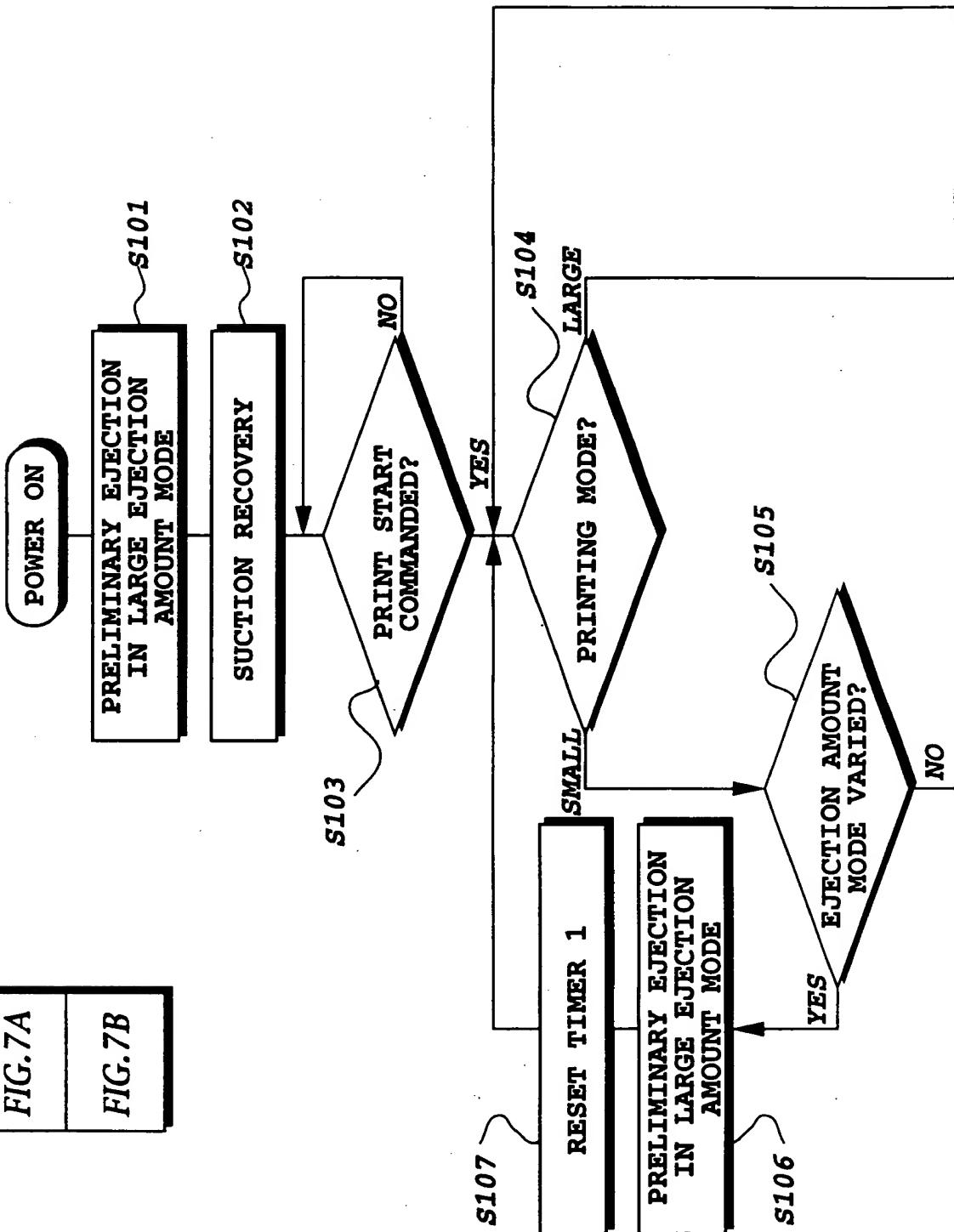
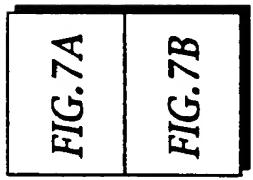


FIG.6B

FIG.7



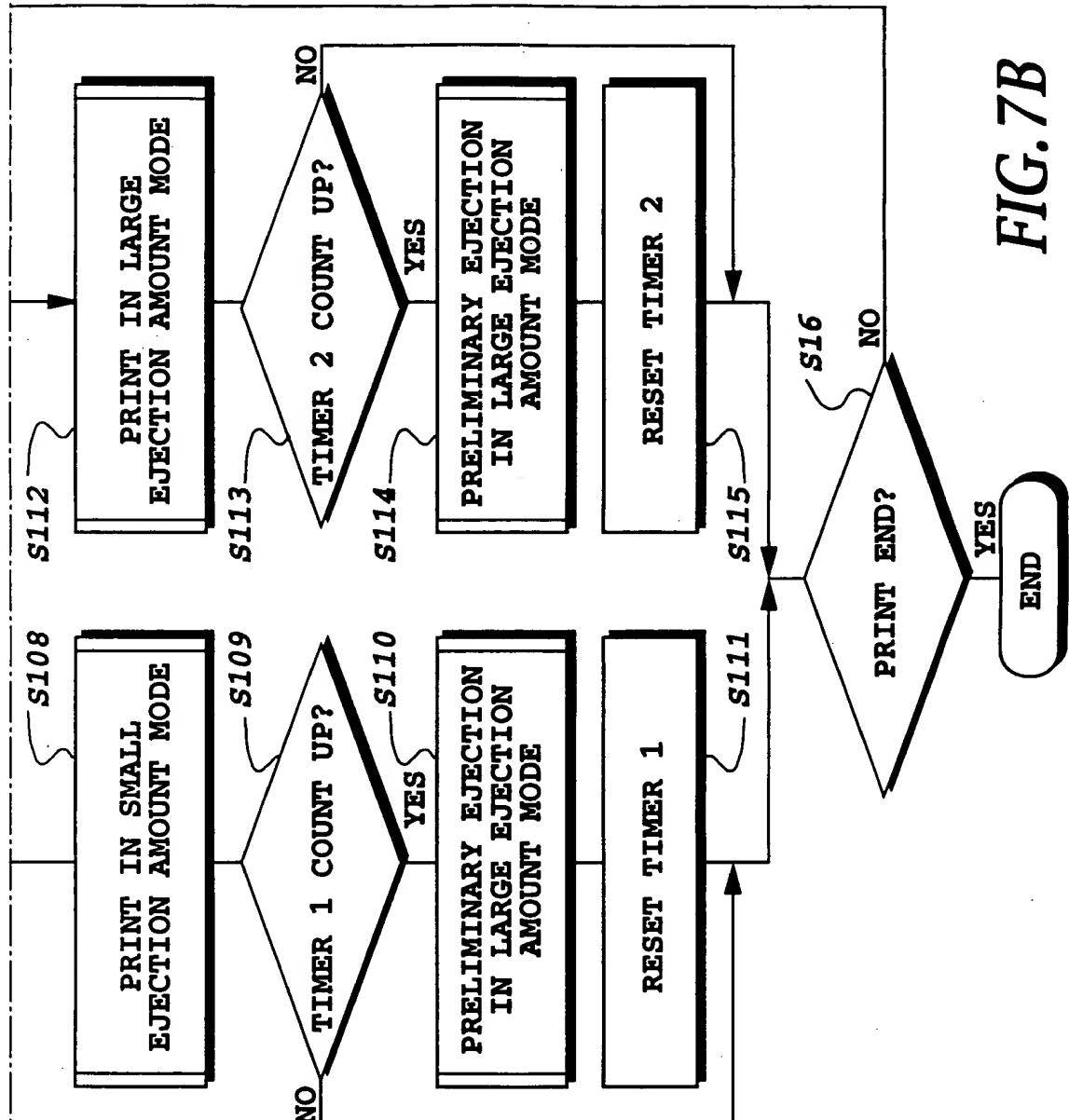


FIG. 7B

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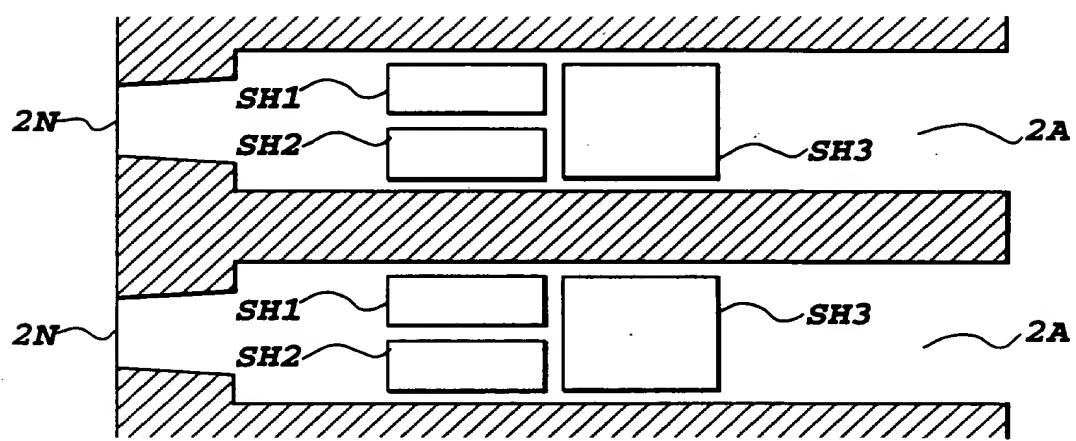


FIG. 8

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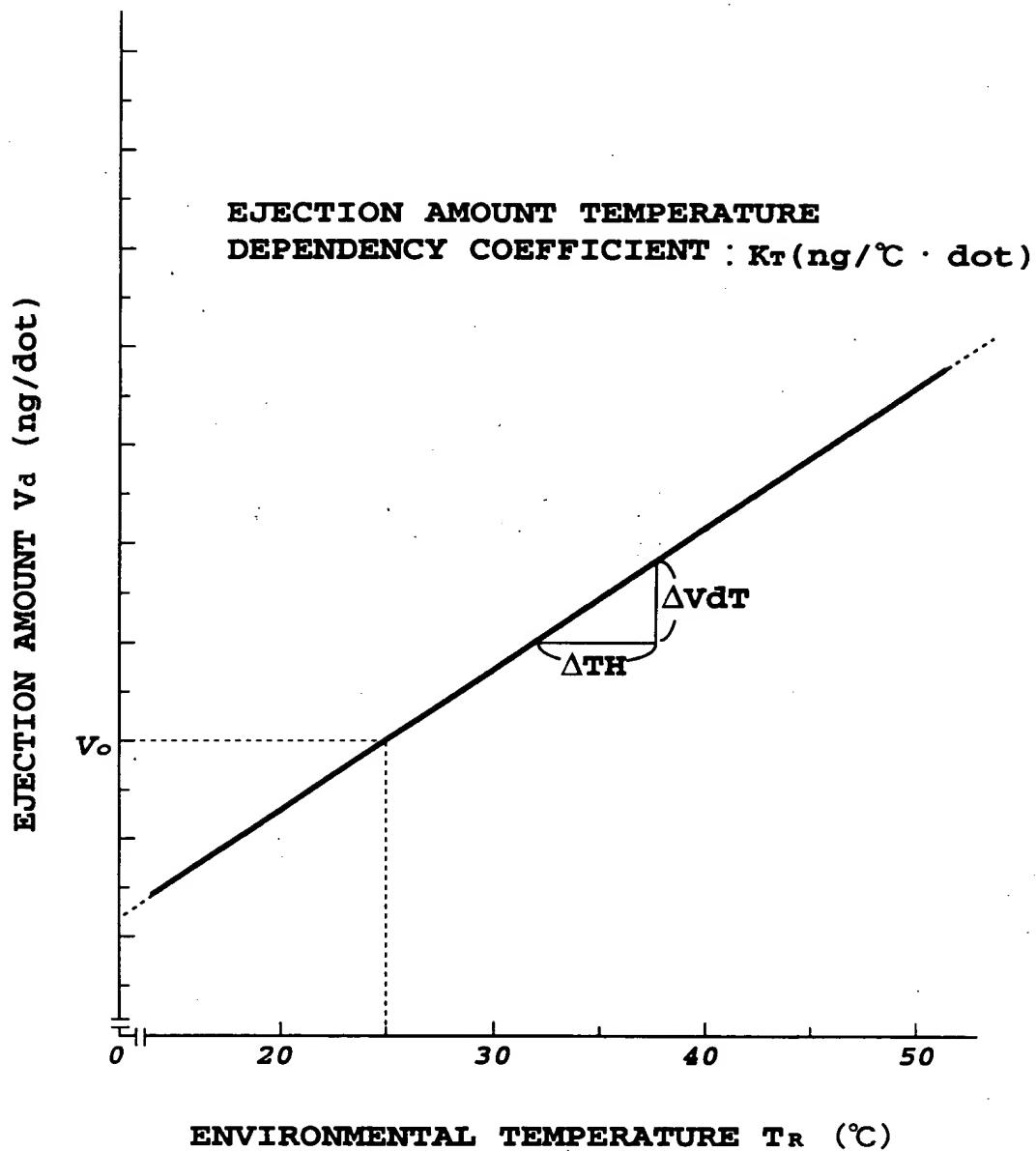


FIG.9

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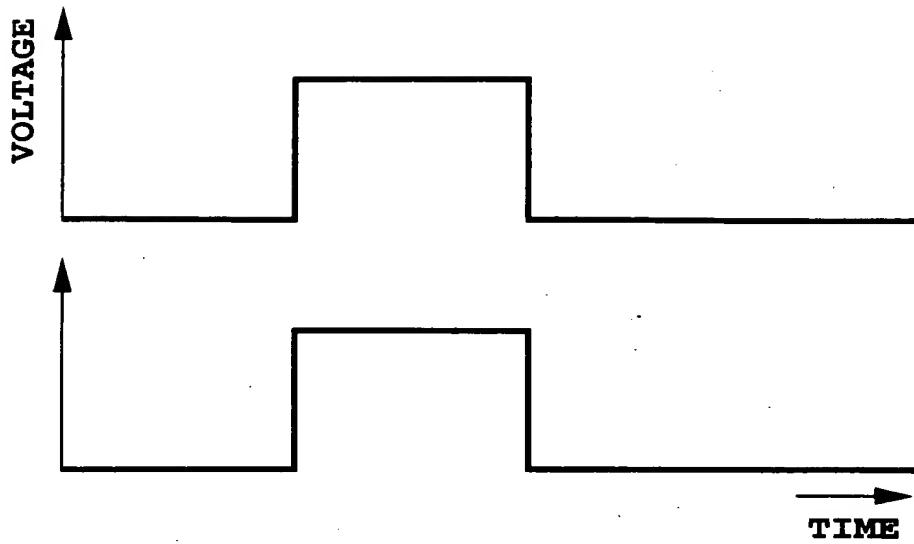


FIG.10A

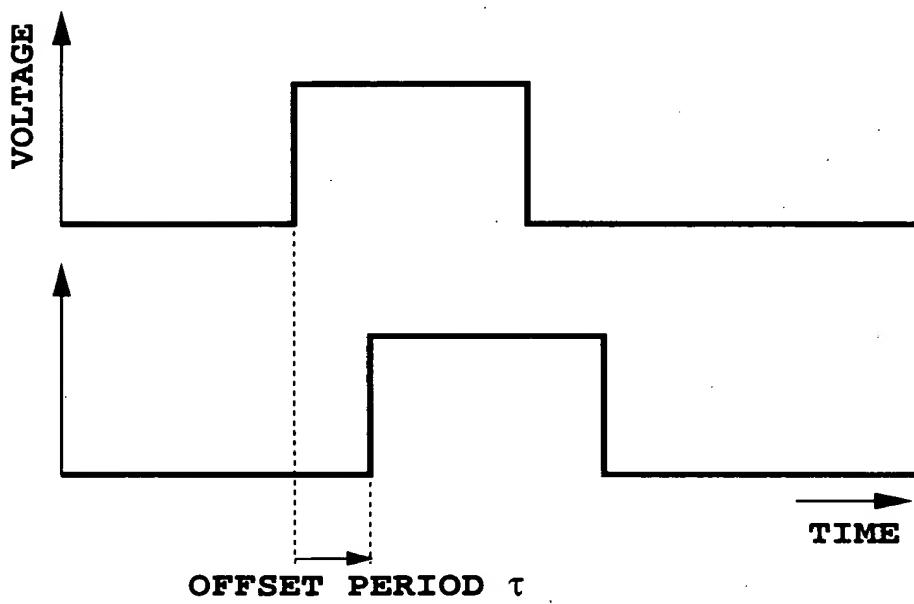


FIG.10B

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EJECTION AMOUNT V_d (p1)

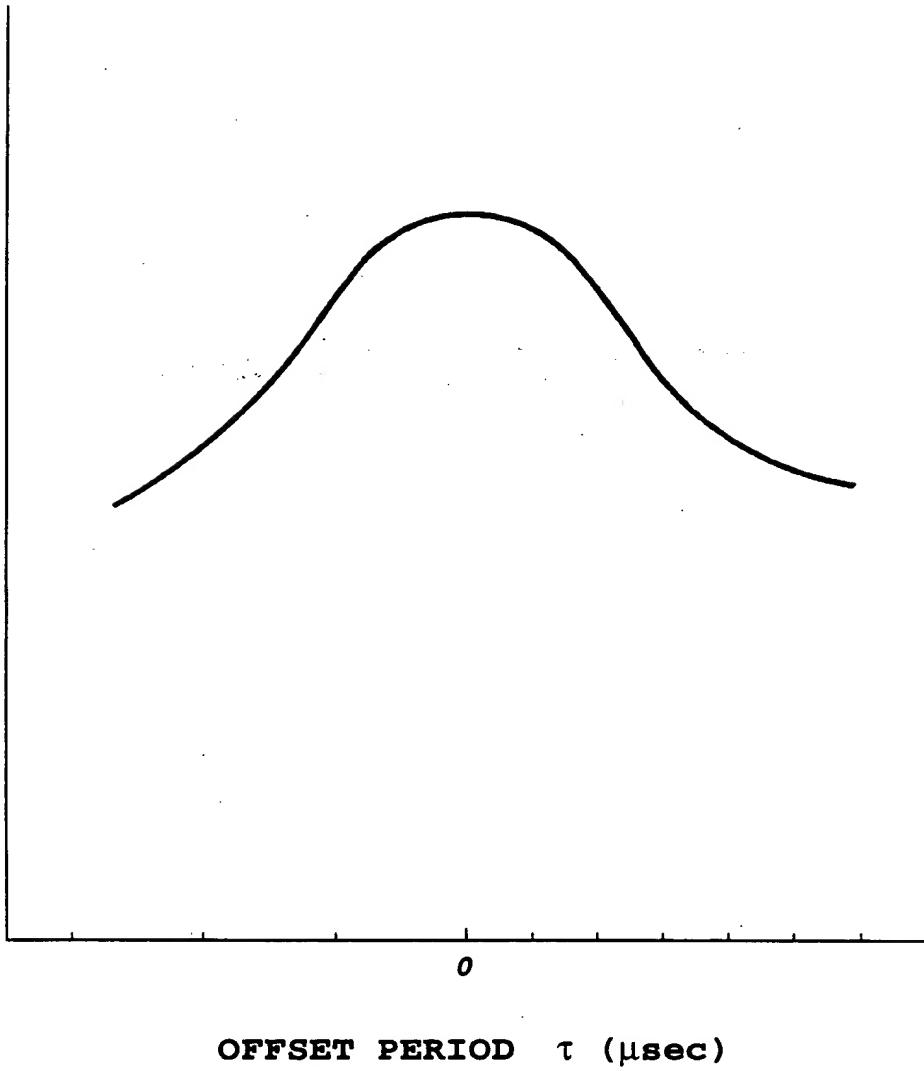


FIG. 11

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| TABLE NO. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|-----|
| HEAD TEMPERATURE Th (°C) | 26 OR MORE ~ LESS THAN 26 | 29 OR MORE ~ LESS THAN 32 | 32 OR MORE ~ LESS THAN 32 | 35 OR MORE ~ LESS THAN 35 | 38 OR MORE ~ LESS THAN 38 | 41 OR MORE ~ LESS THAN 41 | 44 OR MORE ~ LESS THAN 44 | 47 OR MORE ~ LESS THAN 47 | 50 OR MORE ~ LESS THAN 50 | 53 OR MORE ~ LESS THAN 53 | |
| OFFSET PERIOD τ (μsec) | 0 | 0.8 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.4 | 4.0 |

FIG. 12

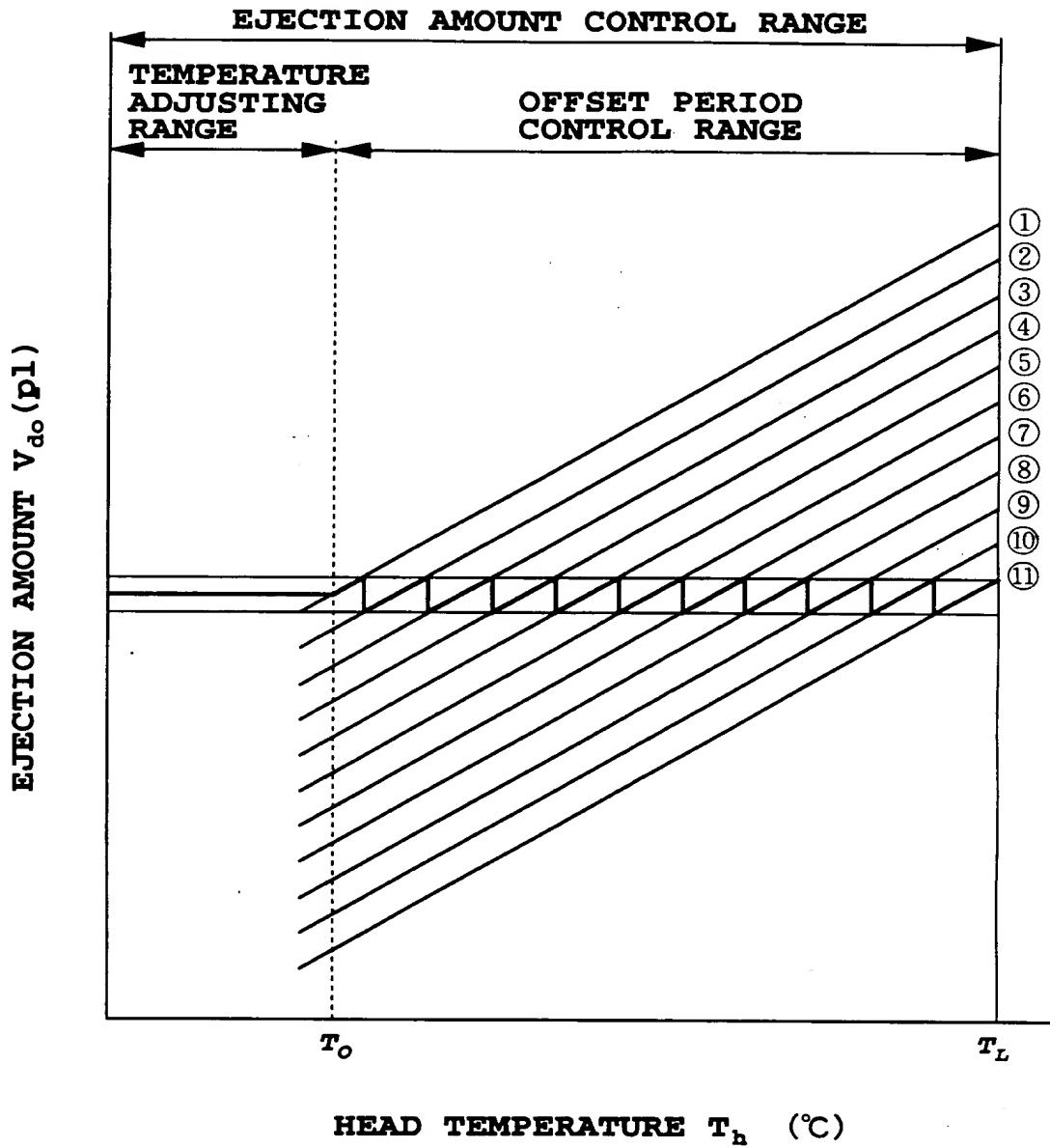
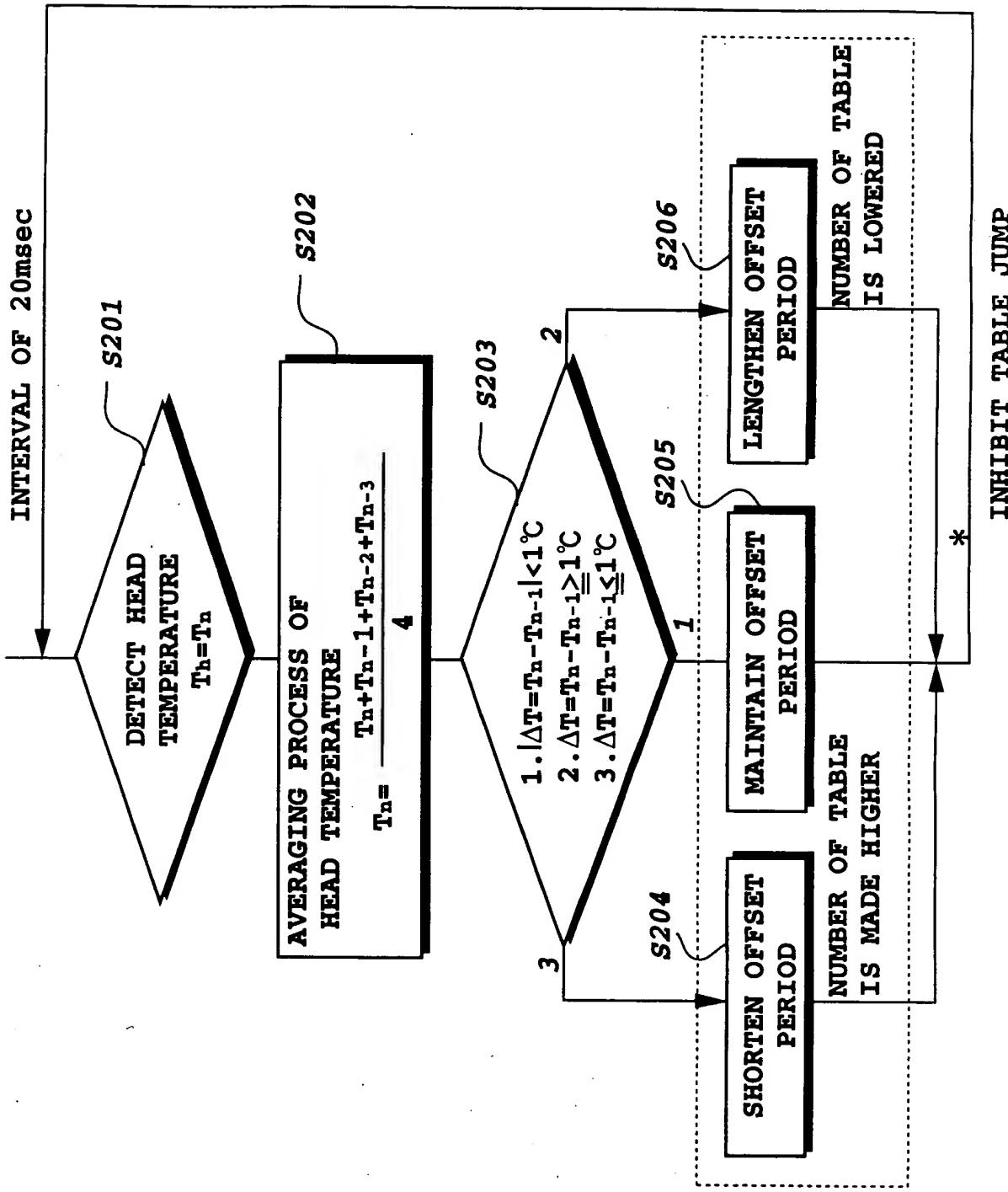


FIG.13

FIG.14



INHIBIT TABLE JUMP

| TABLE NO. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|------|
| HEAD TEMPERATURE Th (°C) | 26 OR MORE ~ LESS THAN 26 | 29 OR MORE ~ LESS THAN 32 | 32 OR MORE ~ LESS THAN 35 | 35 OR MORE ~ LESS THAN 38 | 38 OR MORE ~ LESS THAN 41 | 41 OR MORE ~ LESS THAN 44 | 44 OR MORE ~ LESS THAN 47 | 47 OR MORE ~ LESS THAN 50 | 50 OR MORE ~ LESS THAN 53 | 53 OR MORE ~ LESS THAN 53 | |
| OFFSET PERIOD τ (μsec) | 0 | -0.8 | -1.2 | -1.5 | -1.8 | -2.1 | -2.4 | -2.7 | -3.0 | -3.4 | -4.0 |

FIG. 15

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| TABLE NO. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|-----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----|
| HEAD TEMPERATURE T_h (°C) | 26 OR MORE LESS THAN 26 | 29 OR MORE LESS THAN 29 | 32 OR MORE LESS THAN 32 | 35 OR MORE LESS THAN 35 | 38 OR MORE LESS THAN 38 | 41 OR MORE LESS THAN 41 | 44 OR MORE LESS THAN 44 | |
| OFFSET PERIOD τ (μsec) | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.3 |

FIG. 16

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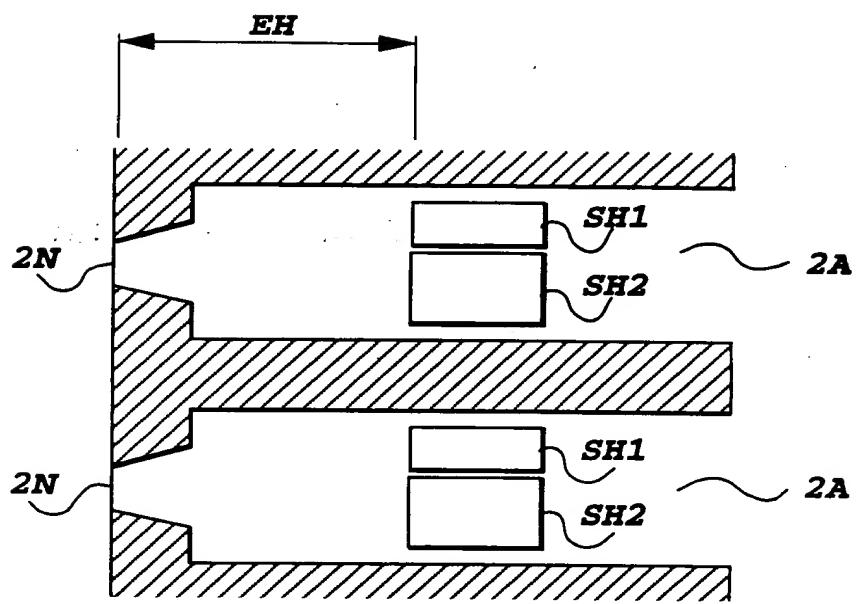


FIG. 17

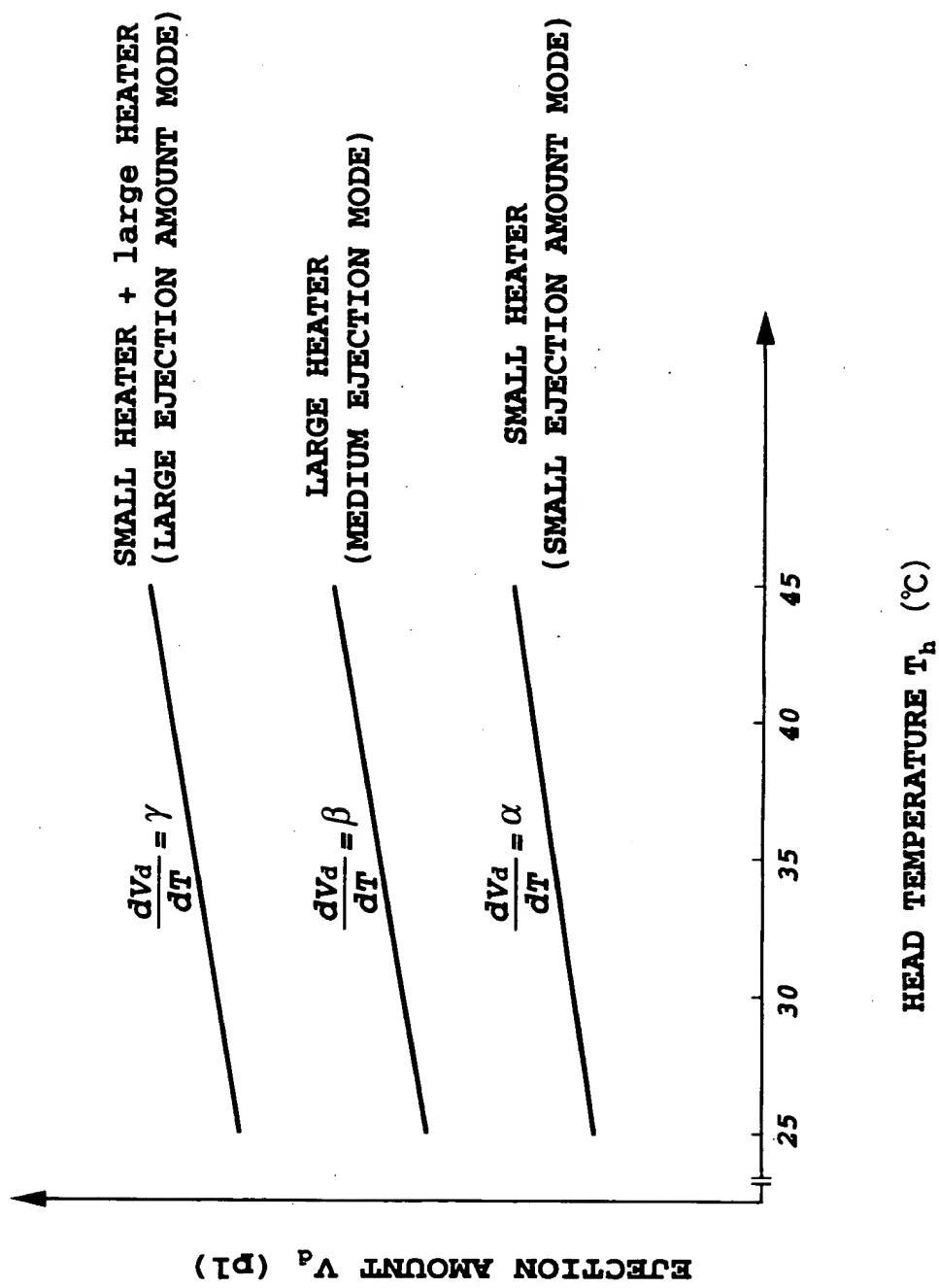


FIG. 18

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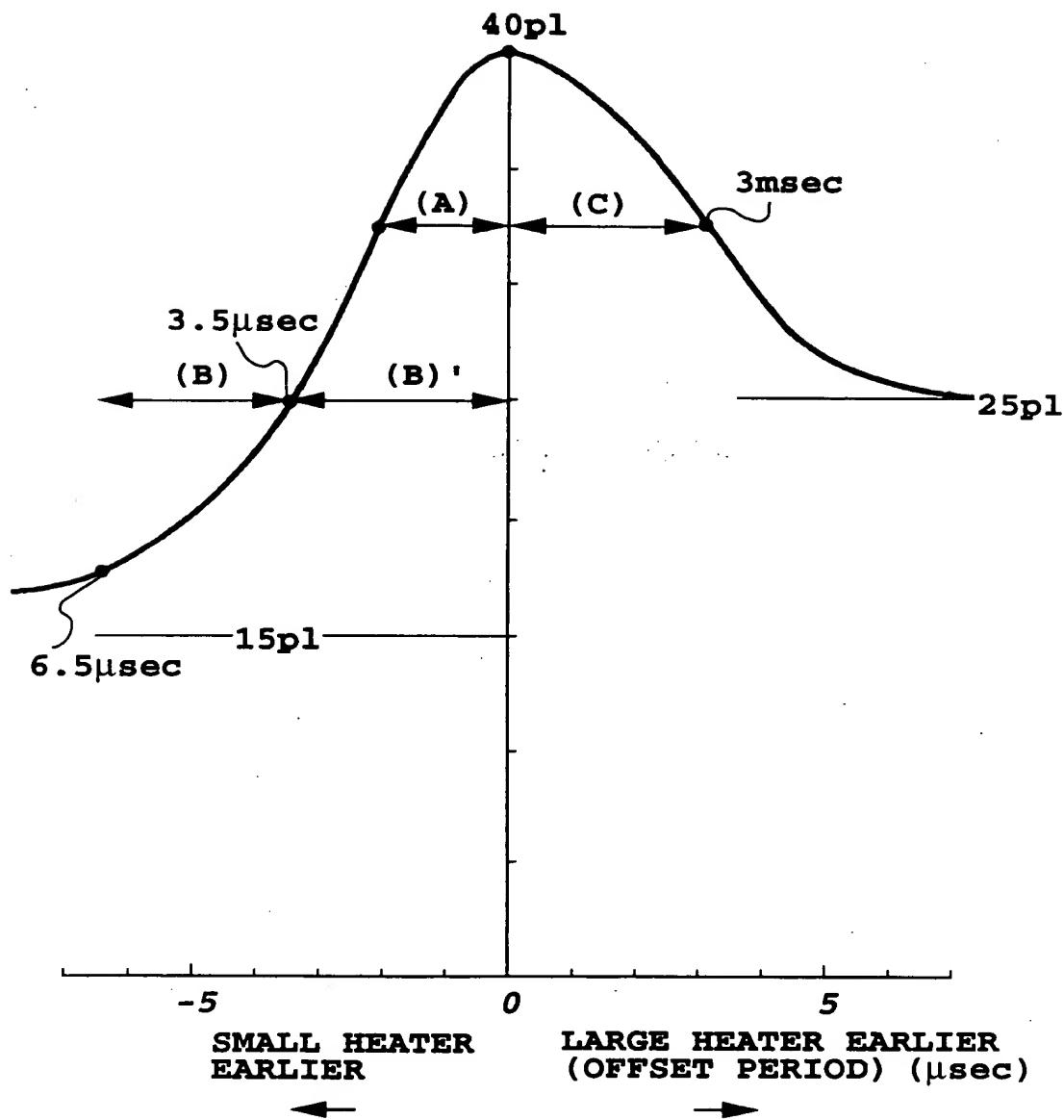


FIG. 19

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| LARGE EJECTION AMOUNT MODE (40pl/dot) | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|-----|
| TABLE NO. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ |
| HEAD TEMPERATURE Th (°C) | 26 OR MORE ~ LESS THAN 26 | 29 OR MORE ~ LESS THAN 29 | 32 OR MORE ~ LESS THAN 32 | 35 OR MORE ~ LESS THAN 35 | 38 OR MORE ~ LESS THAN 38 | 41 OR MORE ~ LESS THAN 41 | 44 OR MORE ~ LESS THAN 44 | 47 OR MORE ~ LESS THAN 47 | 50 OR MORE ~ LESS THAN 50 | |
| OFFSET PERIOD τ (μsec) | 0 | 0.4 | 0.6 | 0.8 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 |

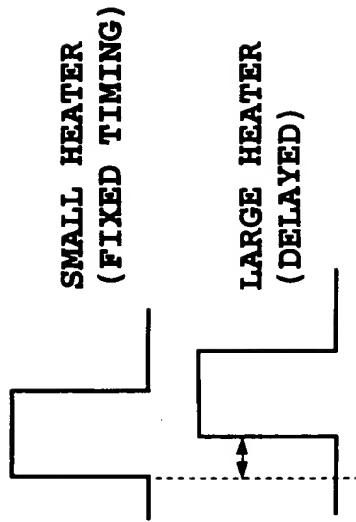


FIG.20A

MEDIUM EJECTION AMOUNT MODE (25p1/dot)

| TABLE NO. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ |
|---|--|--|--|--|--|--|--|--|--|--|
| HEAD TEMPERATURE Th (°C) | 26 OR MORE ~ LESS THAN 26 | 29 OR MORE ~ LESS THAN 29 | 32 OR MORE ~ LESS THAN 32 | 35 OR MORE ~ LESS THAN 35 | 38 OR MORE ~ LESS THAN 38 | 41 OR MORE ~ LESS THAN 41 | 44 OR MORE ~ LESS THAN 44 | 47 OR MORE ~ LESS THAN 47 | 47 OR MORE ~ LESS THAN 50 | 50 OR MORE ~ LESS THAN 50 |
| OFFSET PERIOD τ (μ sec) | 3.5 | 3.8 | 4.1 | 4.4 | 4.7 | 5.0 | 5.3 | 5.7 | 6.1 | 6.5 |

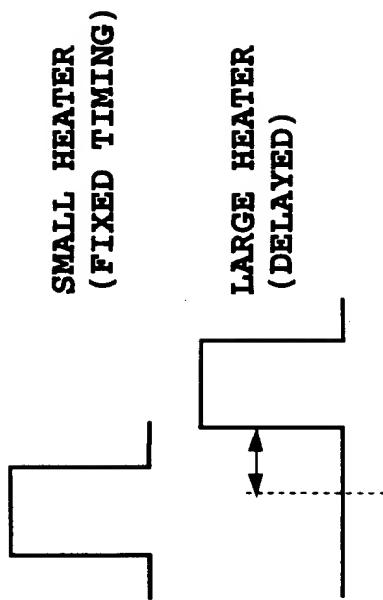


FIG.20B

LARGE EJECTION AMOUNT MODE (40pl/dot)

| TABLE NO. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ |
|--------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----|
| HEAD TEMPERATURE Th (°C) | 26 OR MORE ~ LESS THAN 26 | 29 OR MORE ~ LESS THAN 29 | 32 OR MORE ~ LESS THAN 32 | 35 OR MORE ~ LESS THAN 35 | 38 OR MORE ~ LESS THAN 38 | 41 OR MORE ~ LESS THAN 41 | 44 OR MORE ~ LESS THAN 44 | 47 OR MORE ~ LESS THAN 47 | 50 OR MORE ~ LESS THAN 50 | |
| OFFSET PERIOD τ (μsec) | 0 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 |

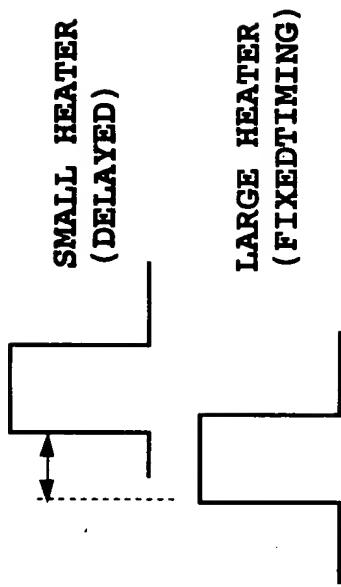


FIG.21A

| MEDIUM EJECTION AMOUNT MODE (25p1/dot) | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|---------------|
| TABLE NO. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ |
| HEAD TEMPERATURE Th (°C) | 26 OR MORE ~ LESS THAN 26 | 29 OR MORE ~ LESS THAN 29 | 32 OR MORE ~ LESS THAN 32 | 35 OR MORE ~ LESS THAN 35 | 38 OR MORE ~ LESS THAN 38 | 41 OR MORE ~ LESS THAN 41 | 44 OR MORE ~ LESS THAN 44 | 47 OR MORE ~ LESS THAN 47 | 47 OR MORE ~ LESS THAN 50 | 50 OR MORE |
| OFFSET PERIOD τ (μsec) | 3.5 | 3.8 | 4.1 | 4.4 | 4.7 | 5.0 | 5.3 | 5.7 | 6.1 | 6.5 |

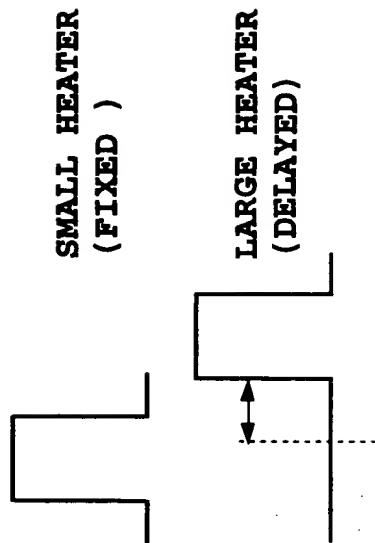


FIG. 21B

SH1: SMALL HEATER
SH2: LARGE HEATER

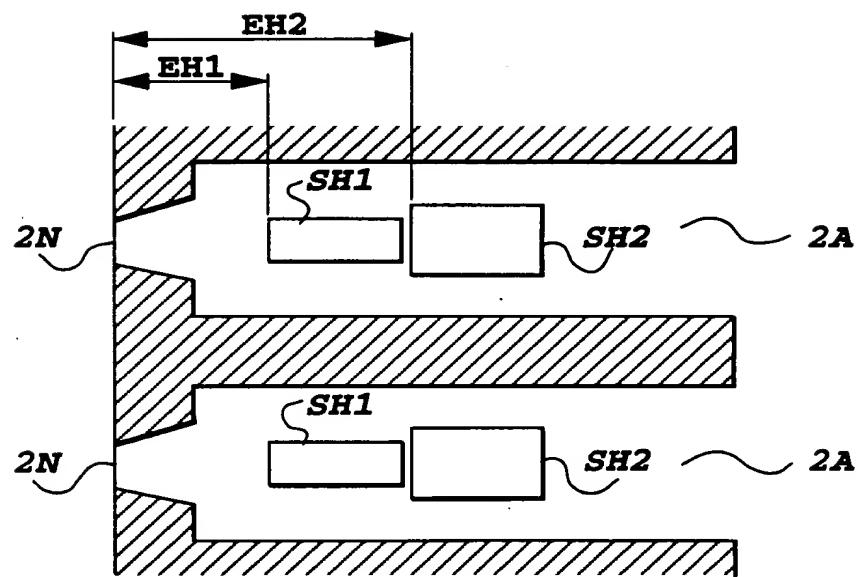


FIG.22

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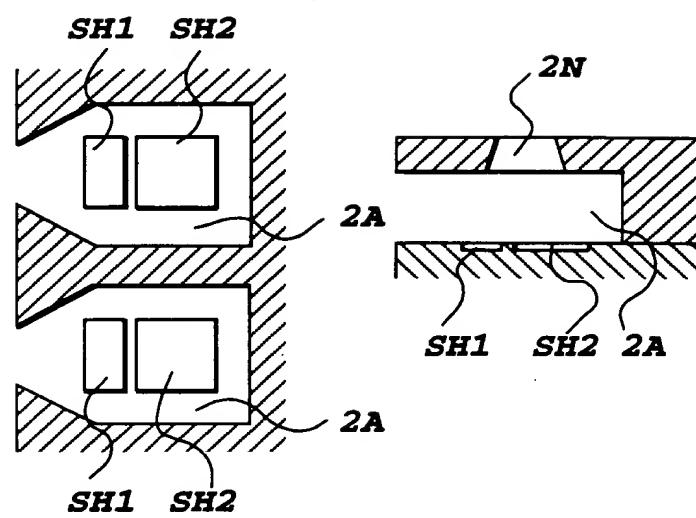


FIG.23

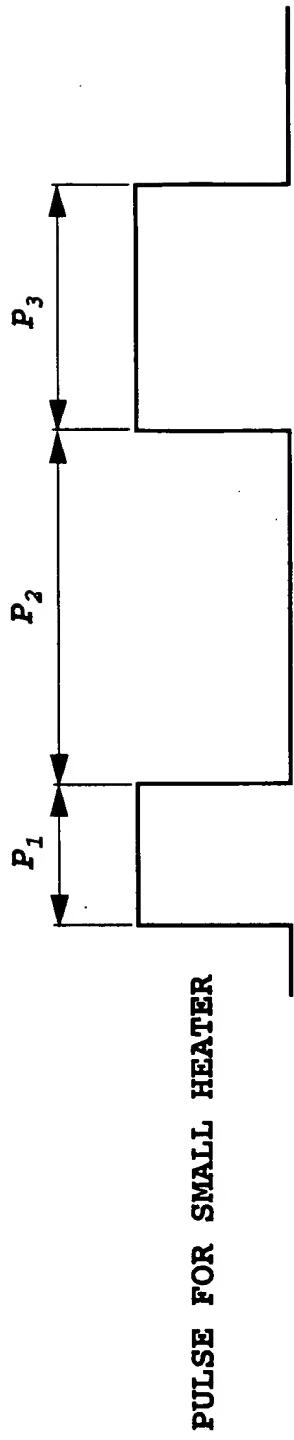


FIG.24A

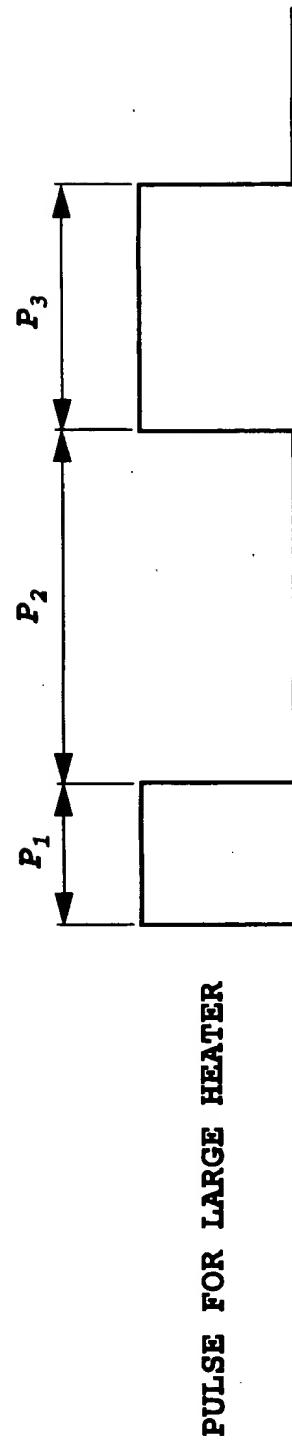


FIG.24B

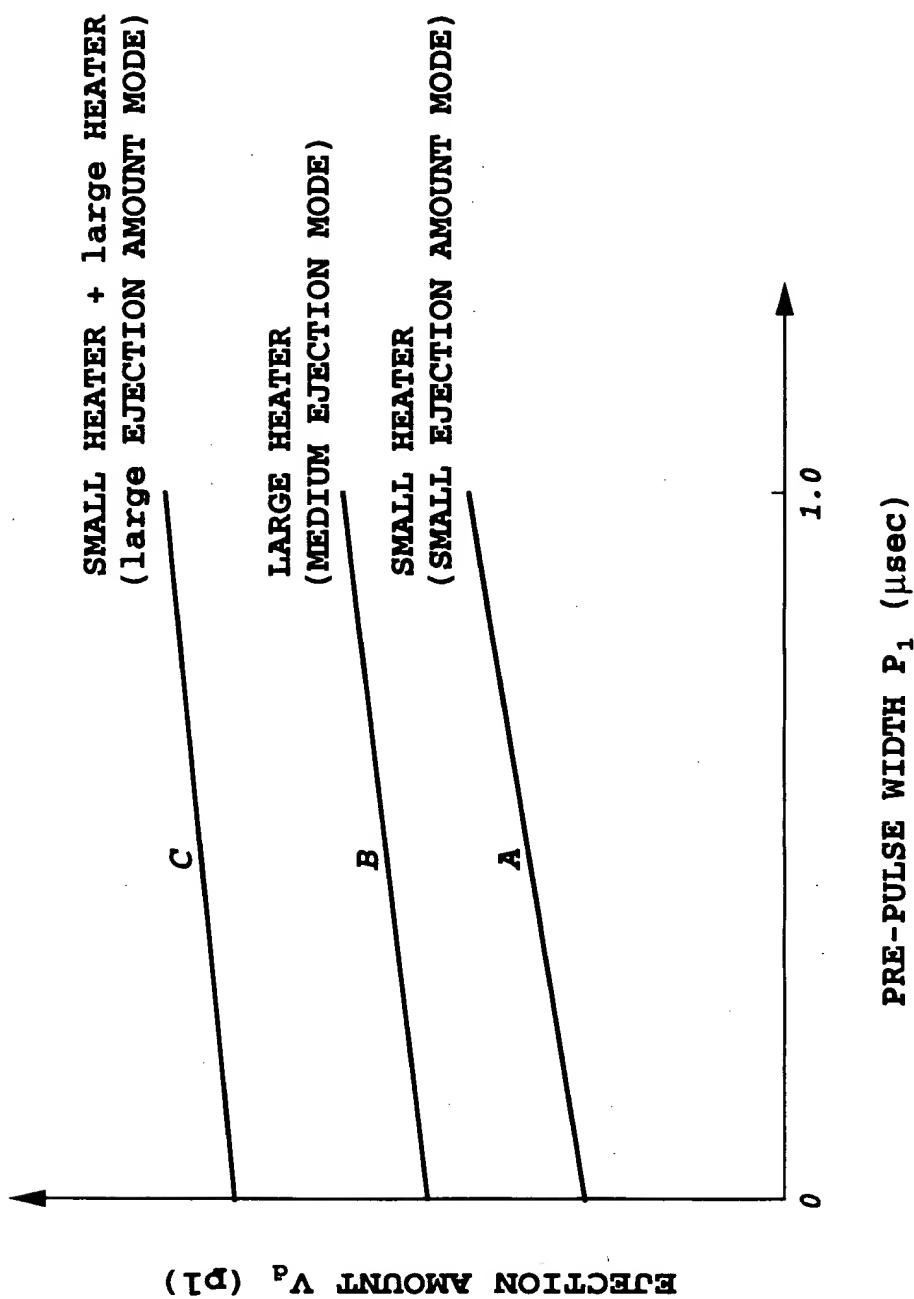


FIG. 25

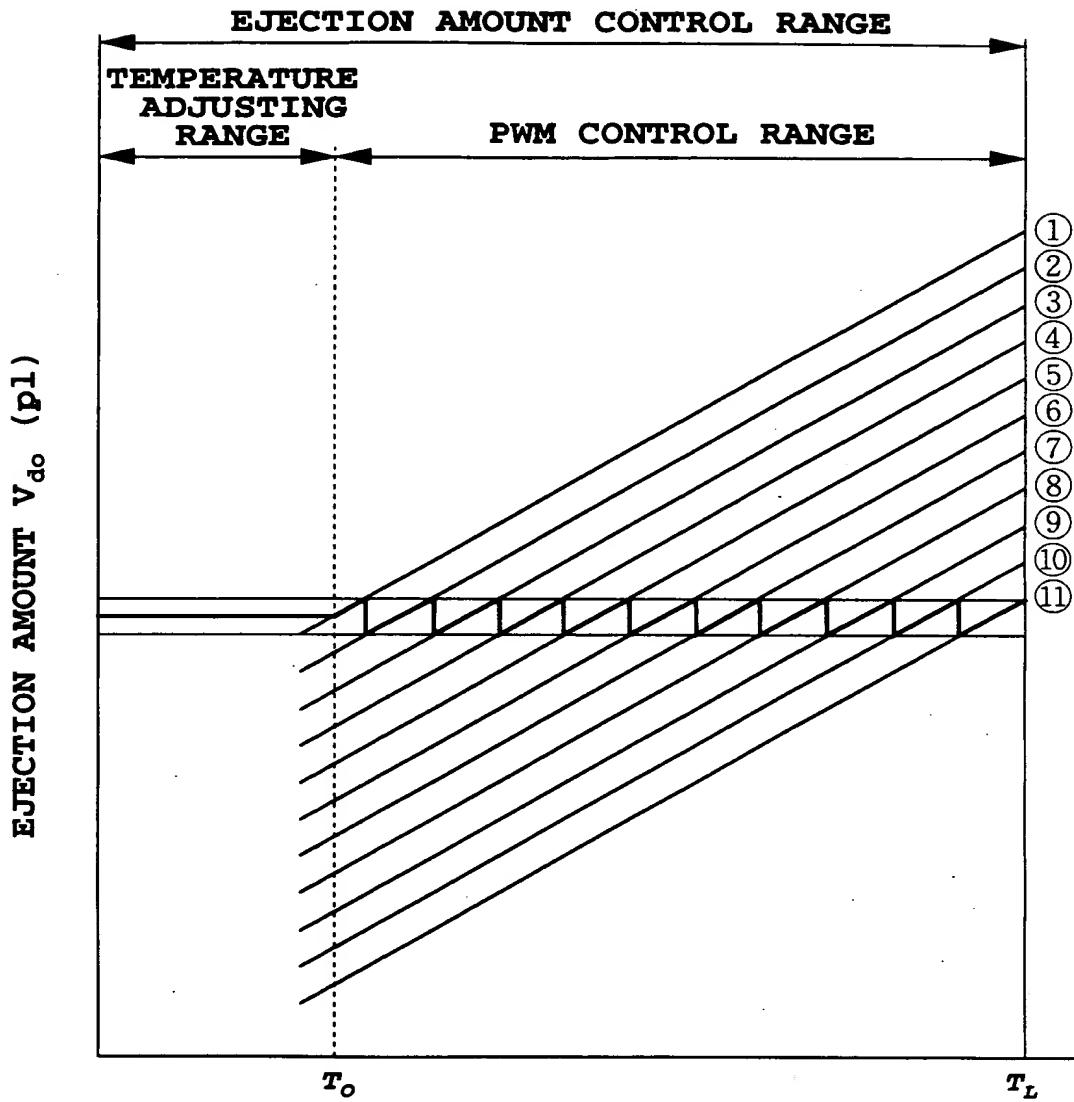


FIG.26

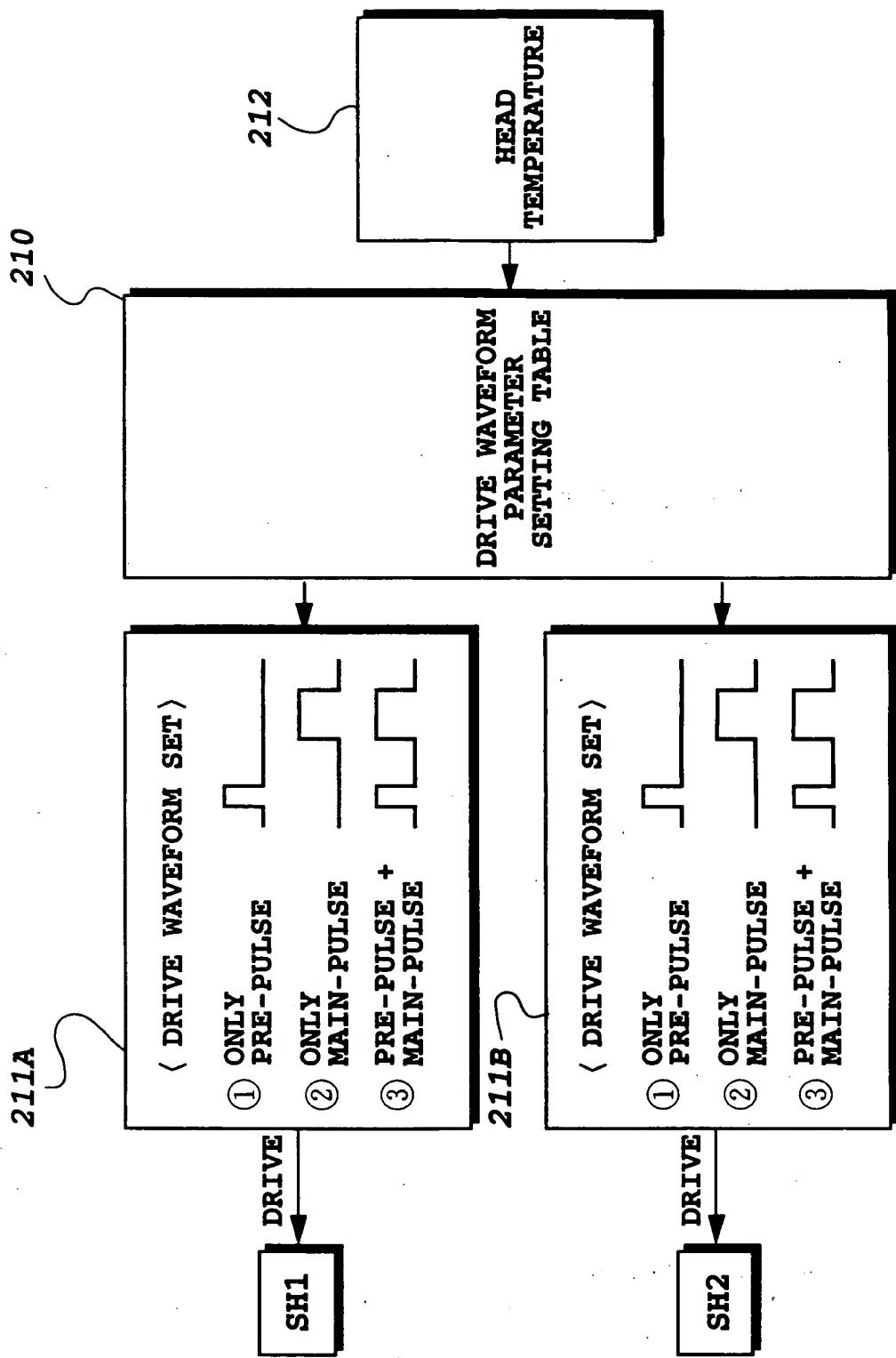


FIG. 27

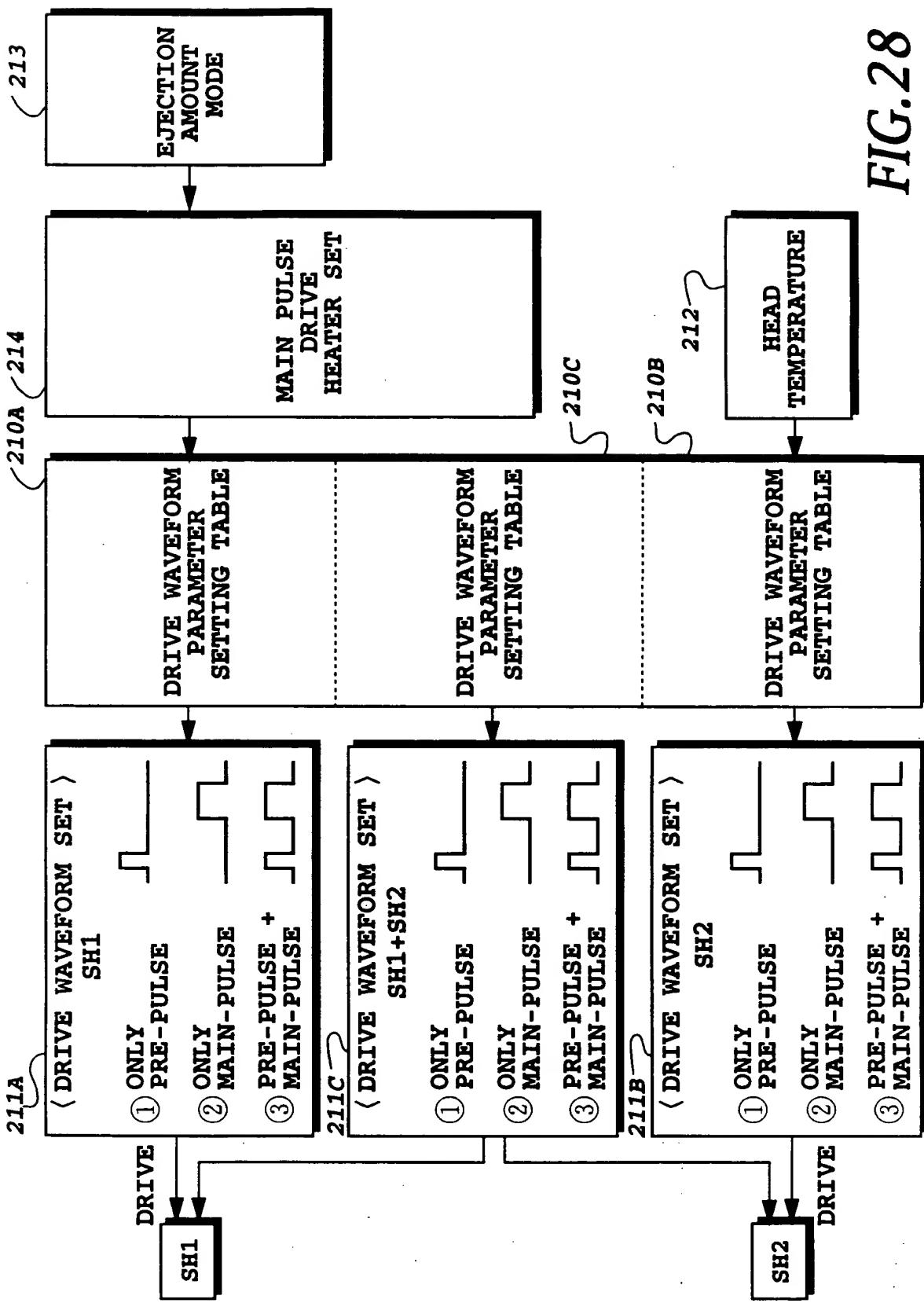


FIG. 28

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| EJECTION AMOUNT MODE | MAIN HEAT PULSE DRIVEN HEATER | | PRE-HEAD PULSE DRIVEN HEATER |
|----------------------------|----------------------------------|-----|---------------------------------|
| | SH1 | SH2 | |
| SMALL | SH1 | | SH1+SH2 |
| MEDIUM | | SH2 | SH1+SH2 |
| LARGE | SH1+SH2 | | SH1+SH2 |

FIG.29

P₁ TABLE FOR SMALL EJECTION AMOUNT MODE

| HEAD T TEMPERATURE (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60 |
|-------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| SMALL HEATER PRE-PULSE (μsec) | 1.0 | 0.950 | 0.900 | 0.850 | 0.800 | 0.750 | 0.700 | 0.650 | 0.600 | 0.550 | 0.500 | 0.450 | 0.400 | 0.350 | 0.300 | 0.250 | 0.200 | 0.150 | 0.10 |
| LARGE HEATER PRE-PULSE (μsec) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(15p1)

FIG.30A

P₁ TABLE FOR MEDIUM EJECTION AMOUNT MODE

| HEAD T TEMPERATURE (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60~ |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| SMALL HEATER PRE-PULSE (μsec) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LARGE HEATER PRE-PULSE (μsec) | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(25p1)

FIG.30B

P₁ TABLE FOR LARGE EJECTION AMOUNT MODE

| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60 |
|-------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| SMALL HEATER PRE-PULSE (μsec) | 1.0 | 0.950 | 0.900 | 0.850 | 0.800 | 0.750 | 0.700 | 0.650 | 0.600 | 0.550 | 0.500 | 0.450 | 0.400 | 0.350 | 0.300 | 0.250 | 0.200 | 0.150 | 0.10 |
| LARGE HEATER PRE-PULSE (μsec) | 1.0 | 0.950 | 0.900 | 0.850 | 0.800 | 0.750 | 0.700 | 0.650 | 0.600 | 0.550 | 0.500 | 0.450 | 0.400 | 0.350 | 0.300 | 0.250 | 0.200 | 0.150 | 0.10 |

(40p1)

FIG. 30C

(FOR SMALL EJECTION
AMOUNT MODE)

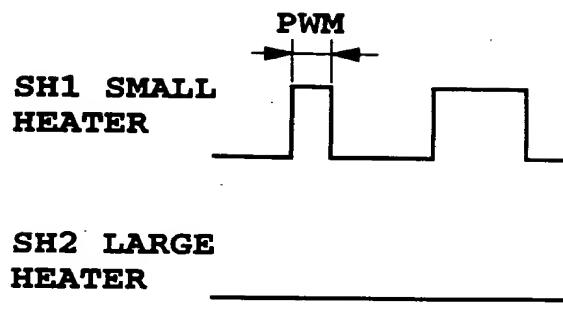


FIG.31A

(FOR MEDIUM EJECTION
AMOUNT MODE)

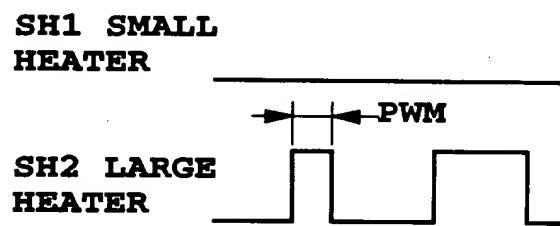


FIG.31B

(FOR LARGE EJECTION
AMOUNT MODE)

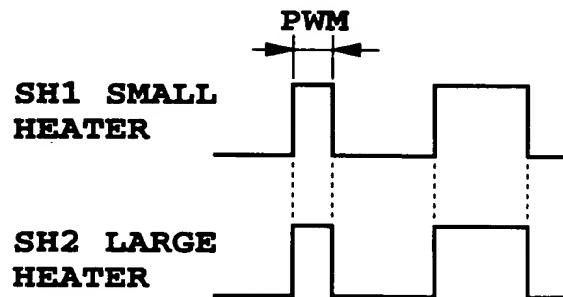


FIG.31C

P₁ TABLE FOR SMALL EJECTION AMOUNT MODE

| | | | | | | | | | | | | | | | | | | | |
|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60 |
| SMALL HEATER PRE-PULSE (μ sec) | 1.00 | 0.950 | 0.900 | 0.850 | 0.800 | 0.750 | 0.700 | 0.650 | 0.600 | 0.550 | 0.500 | 0.450 | 0.400 | 0.350 | 0.300 | 0.250 | 0.200 | 0.150 | 0.10 |
| LARGE HEATER PRE-PULSE (μ sec) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(15p1)

FIG.32A

P₁ TABLE FOR MEDIUM EJECTION AMOUNT MODE

| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SMALL HEATER PRE-PULSE (μsec) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.8 | 0.6 | 0.4 | 0.2 | 0 | 0 |
| LARGE HEATER PRE-PULSE (μsec) | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(25p1)

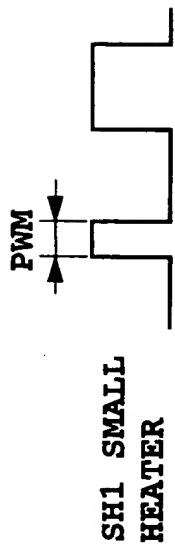
FIG. 32B

P₁ TABLE FOR LARGE EJECTION AMOUNT MODE

| | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60 |
| SMALL HEATER PRE-PULSE (usec) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 |
| LARGE HEATER PRE-PULSE (usec) | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(40p1)

FIG.32C



(FOR SMALL EJECTION
AMOUNT MODE)

FIG. 33A

(FOR MEDIUM EJECTION
AMOUNT MODE)

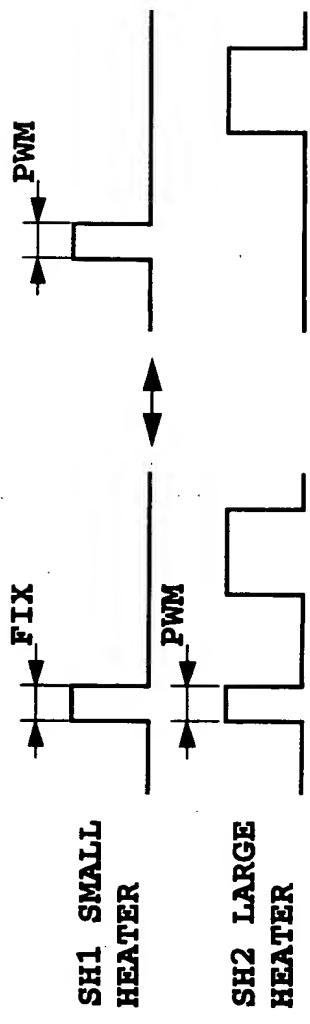


FIG. 33B

(FOR LARGE EJECTION
AMOUNT MODE)

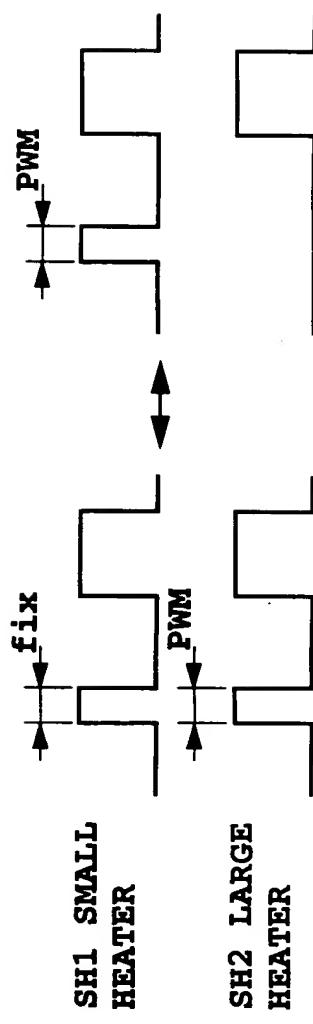


FIG. 33C

P₁ TABLE FOR SMALL EJECTION AMOUNT MODE
(FOR LOW TEMPERATURE)

| HEAD T (°C) | ~16 | ~18 | ~20 | ~22 | ~24 | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~50 |
|-------------------------------------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|------|
| SMALL HEATER PRE-PULSE (μsec) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LARGE HEATER PRE-PULSE (μsec) | 2.0 | 1.93 | 1.86 | 1.8 | 1.73 | 1.66 | 1.6 | 1.53 | 1.46 | 1.4 | 1.33 | 1.26 | 1.2 | 1.13 | 1.06 | 1.0 | 0.93 | 0.87 | 0.80 |

(15p1)

FIG.34A

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P₁ TABLE FOR MEDIUM EJECTION AMOUNT MODE
(FOR LOW TEMPERATURE)

| HEAD T TEMPERATURE (°C) | ~16 | ~18 | ~20 | ~22 | ~24 | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~50 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SMALL HEATER PRE-PULSE (μ sec) | 3.0 | 2.8 | 2.6 | 2.4 | 2.2 | 2.0 | 1.8 | 1.6 | 1.4 | 1.2 | 1.0 | 0.8 | 0.6 | 0.4 | 0.2 | 0 | 0 | 0 | 0 |
| LARGE HEATER PRE-PULSE (μ sec) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(25p1)

FIG.34B

P₁ TABLE FOR LARGE EJECTION AMOUNT MODE
(FOR LOW TEMPERATURE)

| HEAD T TEMPERATURE (°C) | ~16 | ~18 | ~20 | ~22 | ~24 | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~50 |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SMALL HEATER PRE-PULSE (μsec) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| LARGE HEATER PRE-PULSE (μsec) | 2.0 | 1.9 | 1.8 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.2 | 1.1 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 |

(40p1)

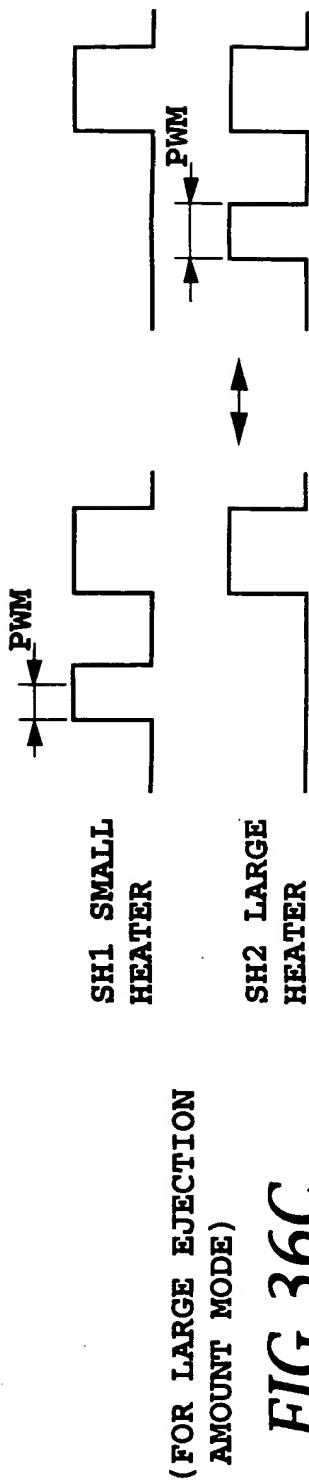
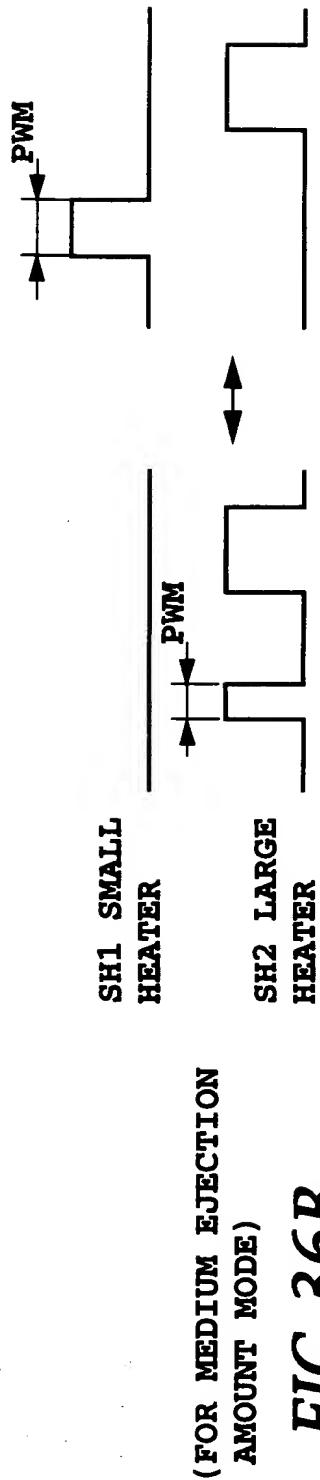
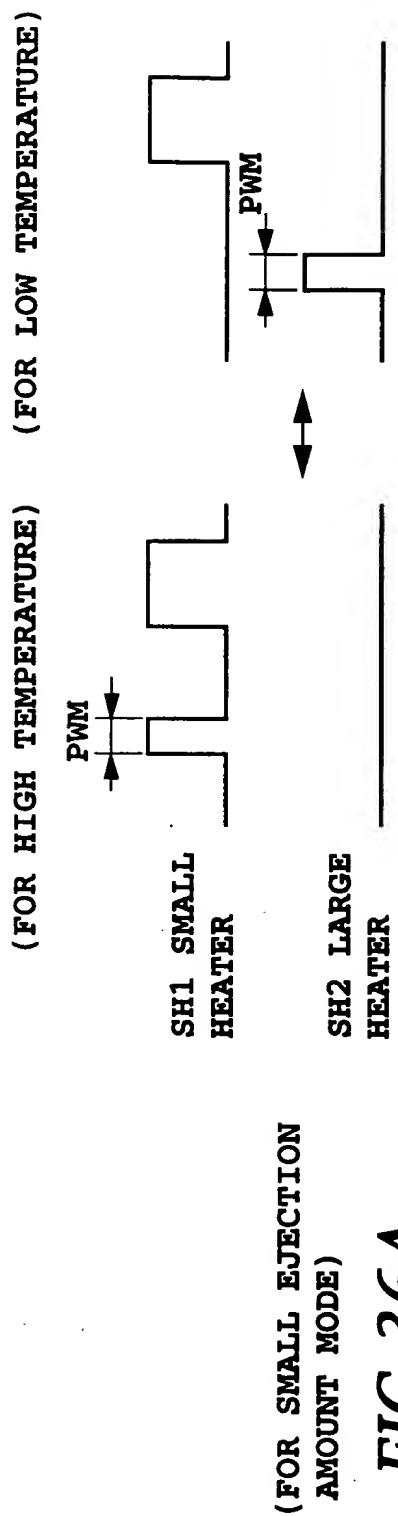
FIG.35A

P₁ TABLE FOR LARGE EJECTION AMOUNT MODE
(FOR HIGH TEMPERATURE)

| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60 |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SMALL HEATER PRE-PULSE (μsec) | 1.8 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.2 | 1.1 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.2 | 0.1 |
| LARGE HEATER PRE-PULSE (μsec) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

(40p1)

FIG.35B



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OFF TIME P_2 , TABLE FOR SMALL EJECTION AMOUNT MODE

| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60~ |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| SMALL HEATER OFF TIME (usec) | 4.0 | 3.9 | 3.8 | 3.7 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 |
| LARGE HEATER OFF TIME (usec) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

(15p1)

FIG.37A

OFF TIME P_2 , TABLE FOR MEDIUM EJECTION AMOUNT MODE

| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60 |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SMALL HEATER | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OFF TIME (μsec) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LARGE HEATER | 4.0 | 3.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.8 | 2.6 | 2.4 | 2.2 | 2.0 | 1.8 | 1.6 | 1.4 | 1.2 | 1.0 | 0.8 | 0.6 | 0.4 |
| OFF TIME (μsec) | | | | | | | | | | | | | | | | | | | |

(25p1)

FIG.37B

OFF TIME P_2 TABLE FOR LARGE EJECTION AMOUNT MODE

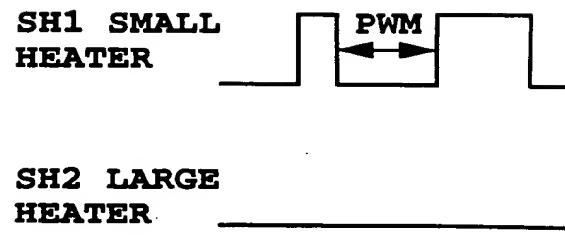
| HEAD T TEMPERATURE (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60 |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SMALL HEATER OFF TIME (usec) | 4.0 | 3.9 | 3.8 | 3.7 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 |
| LARGE HEATER OFF TIME (usec) | 4.0 | 3.9 | 3.8 | 3.7 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 |

(40p1)

FIG.37C

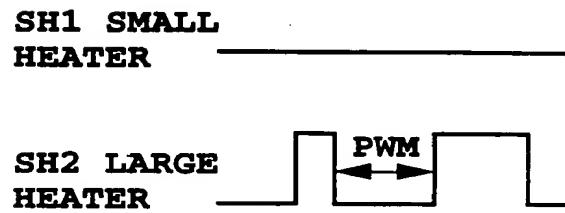
(FOR SMALL EJECTION
AMOUNT MODE)

FIG. 38A



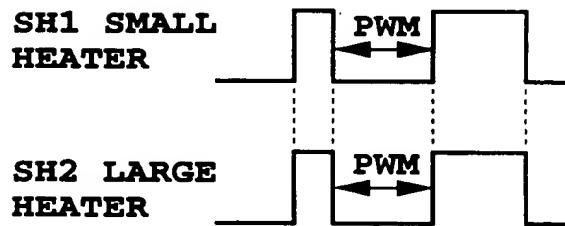
(FOR MEDIUM EJECTION
AMOUNT MODE)

FIG. 38B



(FOR LARGE EJECTION
AMOUNT MODE)

FIG. 38C



OFF TIME P₂ TABLE FOR SMALL EJECTION AMOUNT MODE

| | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60~ |
| SMALL HEATER OFF TIME (μsec) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| LARGE HEATER OFF TIME (μsec) | 4.0 | 3.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.8 | 2.6 | 2.4 | 2.2 | 2.0 | 1.8 | 1.6 | 1.4 | 1.2 | 1.0 | 0.8 | 0.6 | 0.4 |

(15p1)

FIG.39A

OFF TIME P_2 TABLE FOR MEDIUM EJECTION AMOUNT MODE

| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60~ |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| SMALL HEATER OFF TIME (μsec) | 4.0 | 3.6 | 3.2 | 2.8 | 2.4 | 2.0 | 1.6 | 1.2 | 0.8 | 0.4 | 0 | | | | | | | | |
| LARGE HEATER OFF TIME (μsec) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

(25p1)

FIG. 39B

OFF TIME P₂ TABLE FOR LARGE EJECTION AMOUNT MODE

| HEAD T (°C) | ~26 | ~28 | ~30 | ~32 | ~34 | ~36 | ~38 | ~40 | ~42 | ~44 | ~46 | ~48 | ~50 | ~52 | ~54 | ~56 | ~58 | ~60 | ~60~ |
|------------------------------------|-----|-----|-----|-----|-----|------|-----|------|------|------|------|------|-----|------|-----|------|-----|------|------|
| SMALL HEATER OFF TIME (μsec) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| LARGE HEATER OFF TIME (μsec) | 4.0 | 3.7 | 3.5 | 3.4 | 3.3 | 3.25 | 3.2 | 3.15 | 3.13 | 3.05 | 3.02 | 2.95 | 2.9 | 2.85 | 2.8 | 2.75 | 2.7 | 2.65 | 2.6 |

(40p1)

FIG.39C

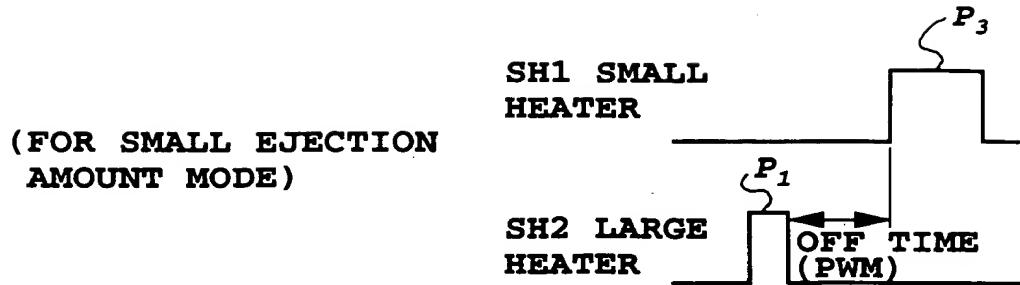


FIG.40A



FIG.40B

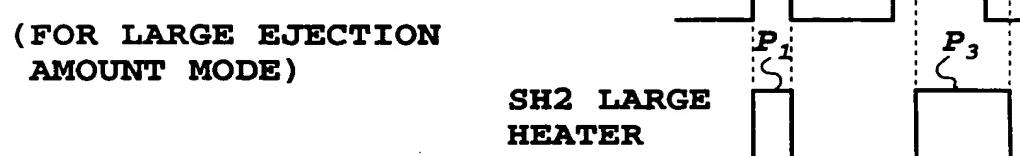


FIG.40C

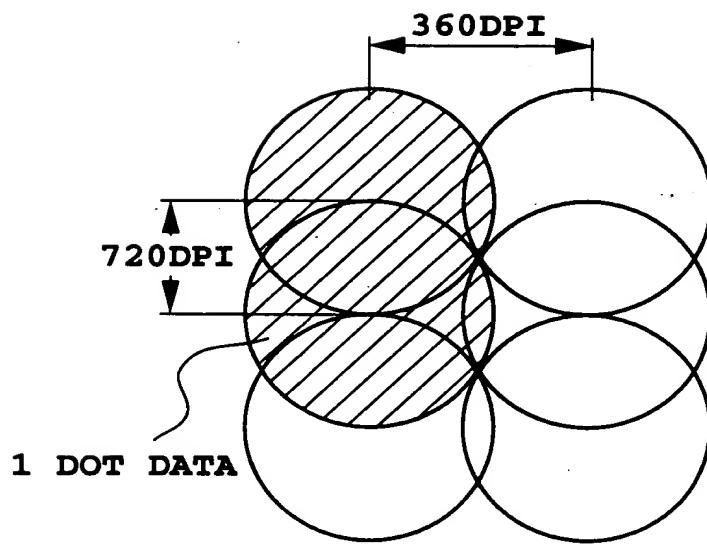


FIG.41

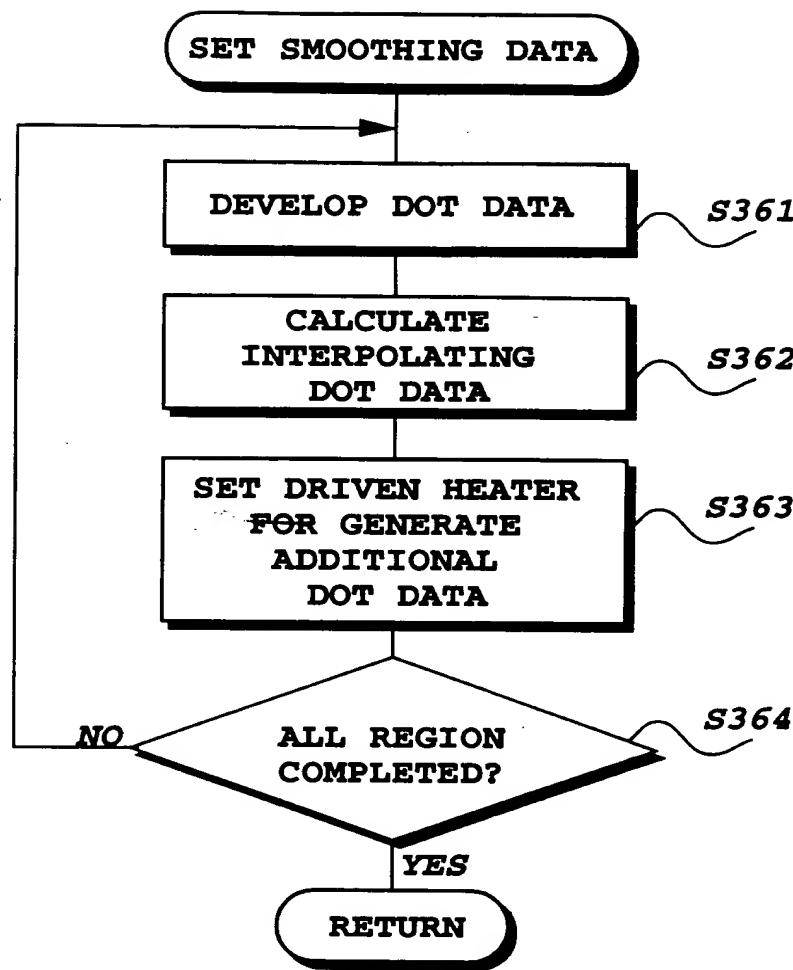


FIG.42

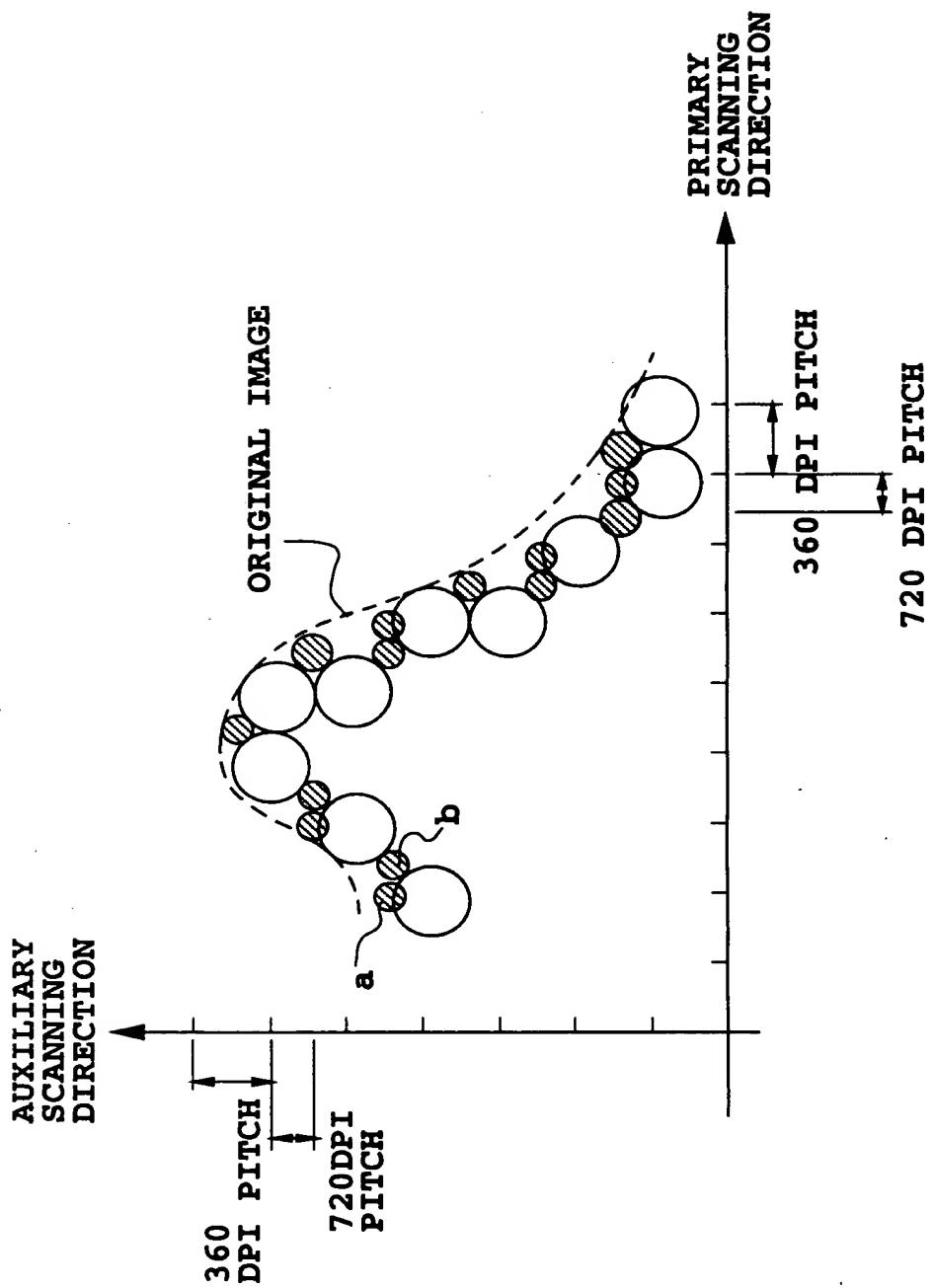


FIG. 43

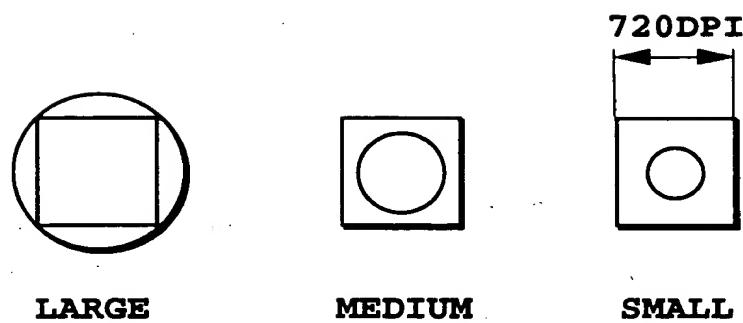


FIG.44

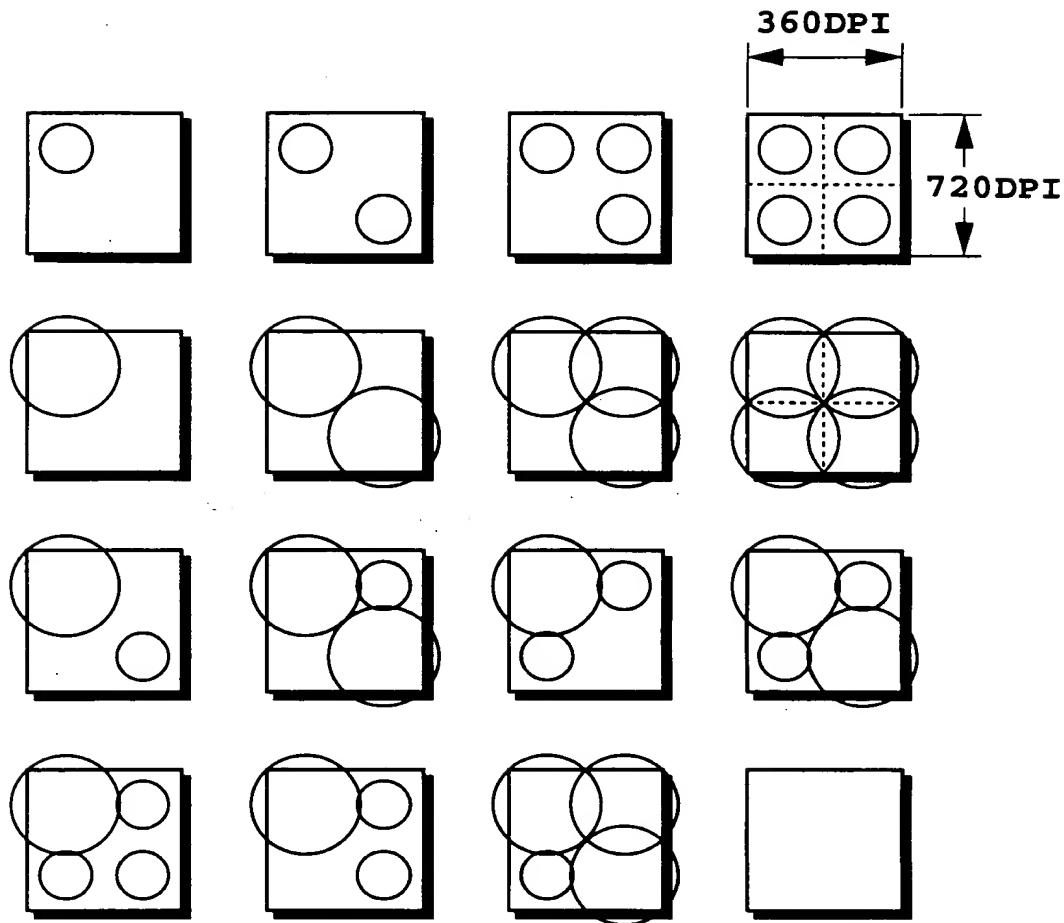


FIG.45

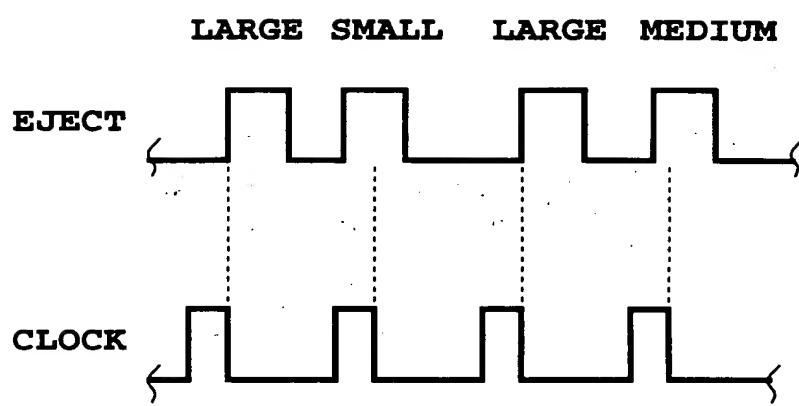


FIG. 46A

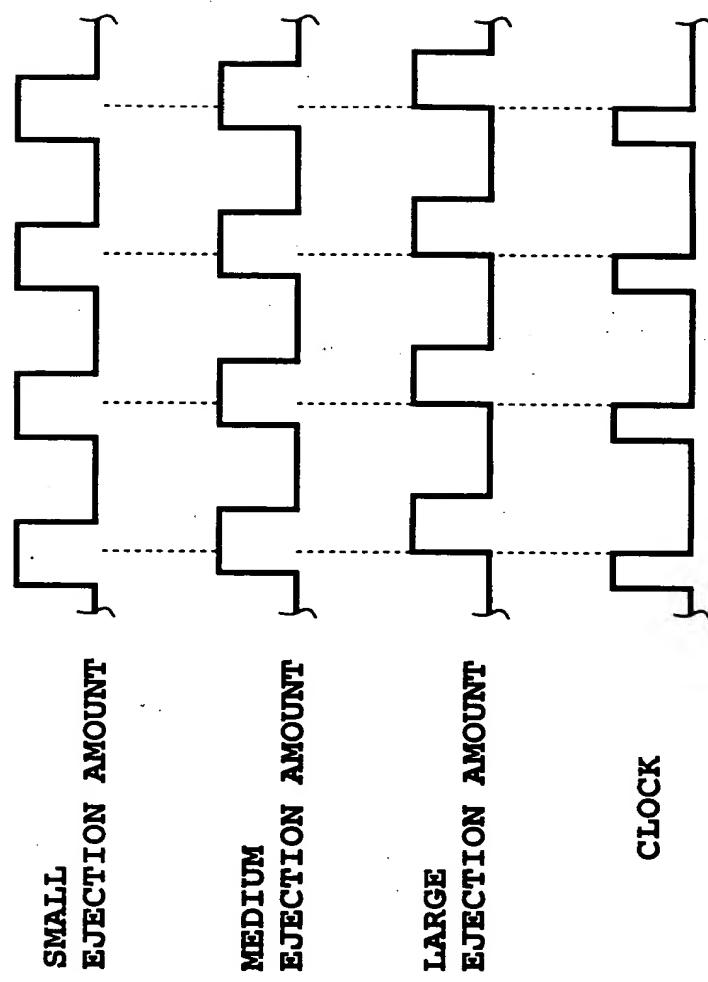


FIG. 46B

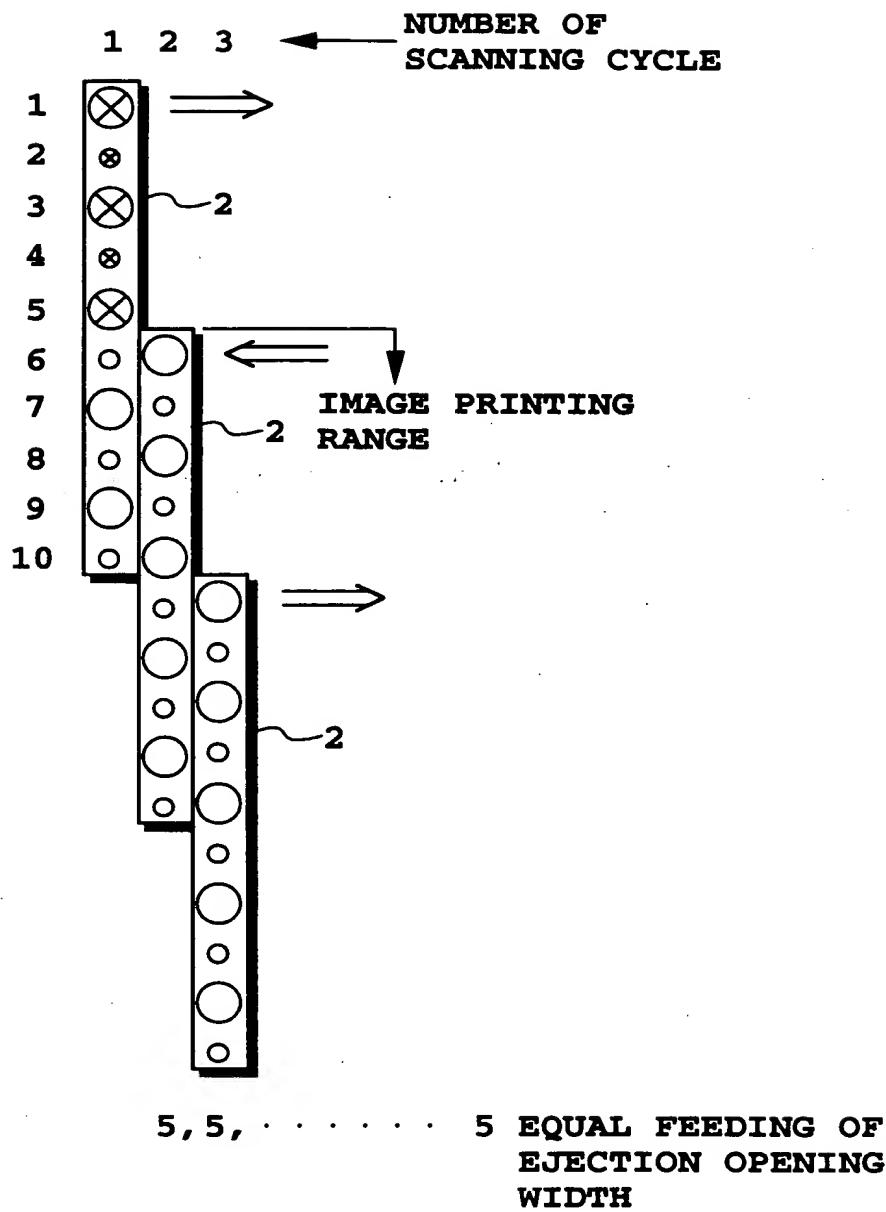


FIG.47

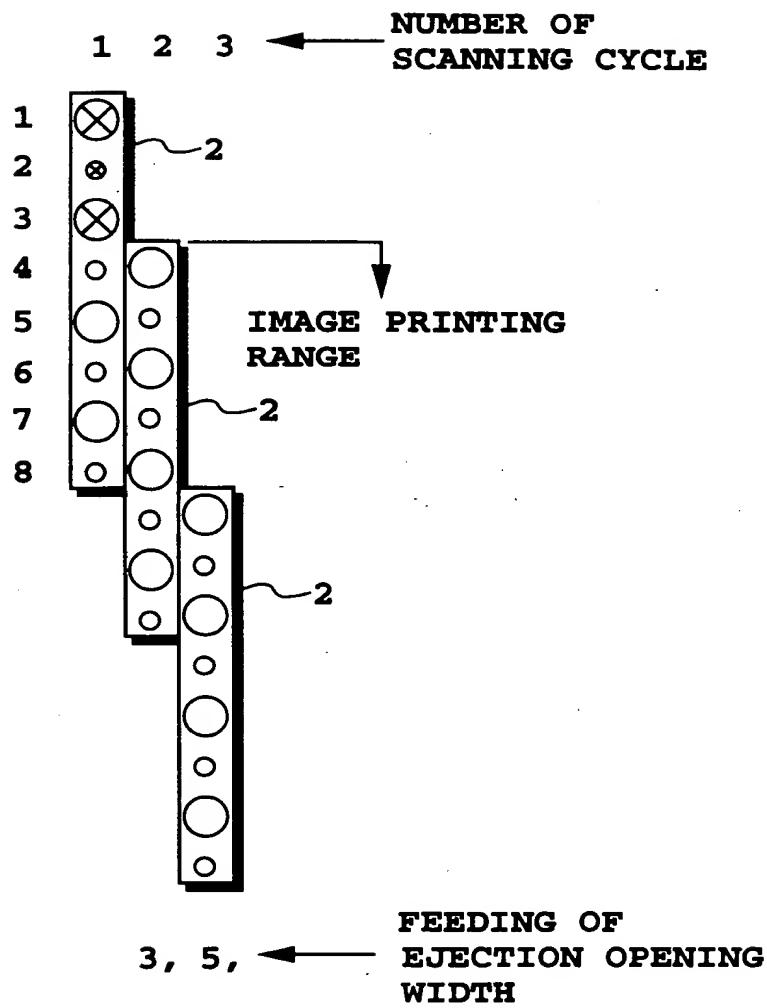


FIG.48

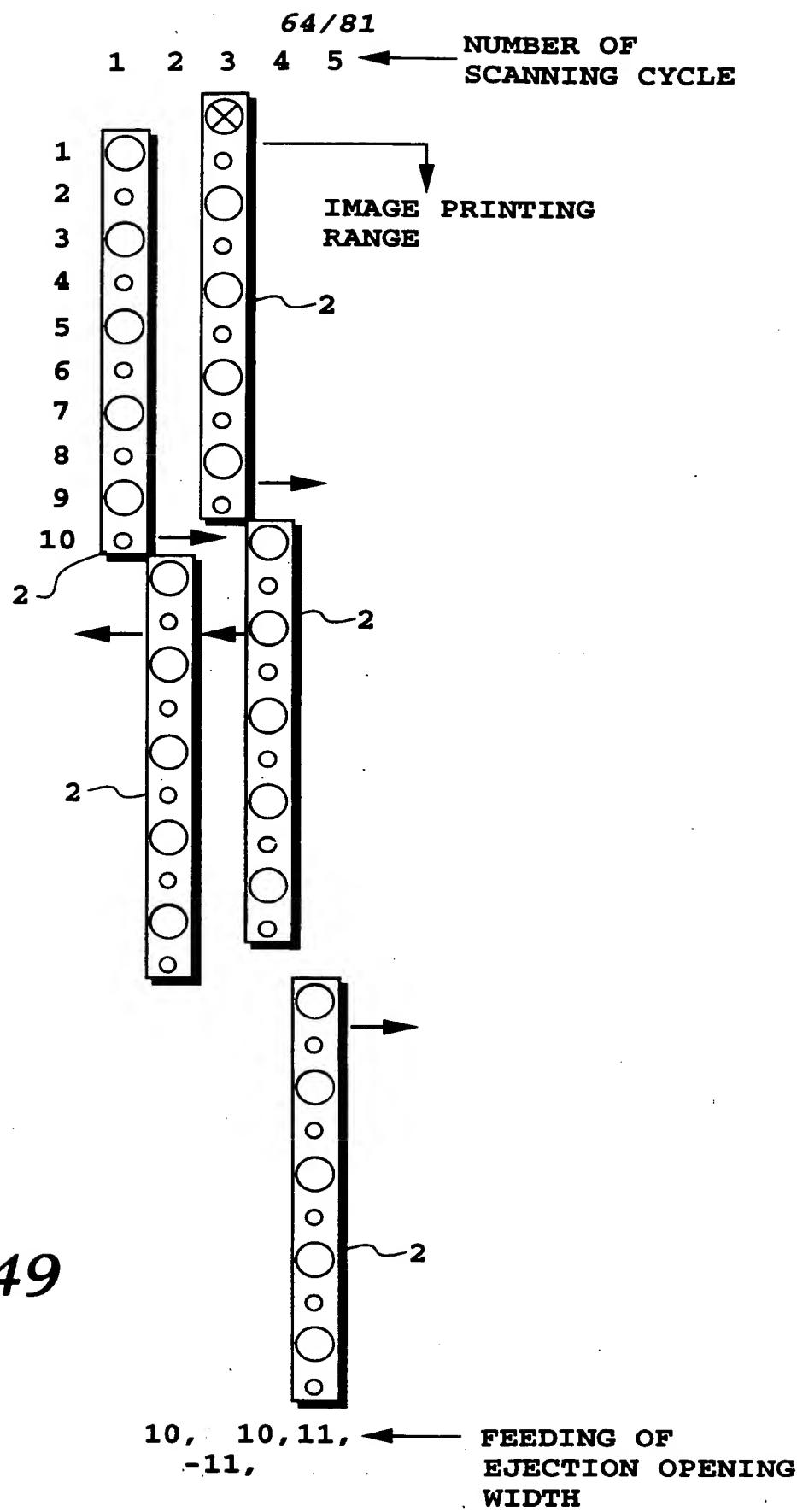


FIG.49

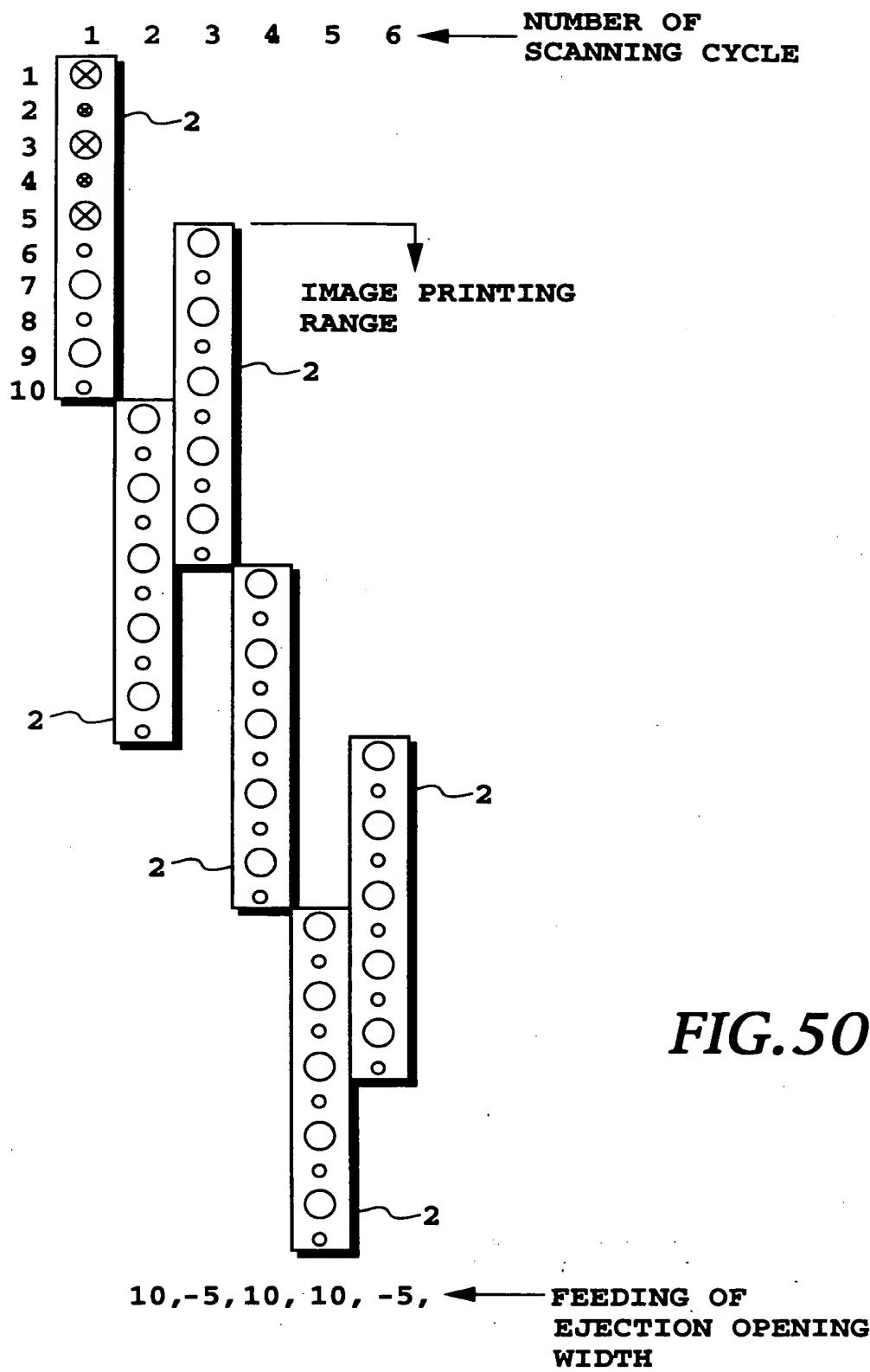


FIG. 50

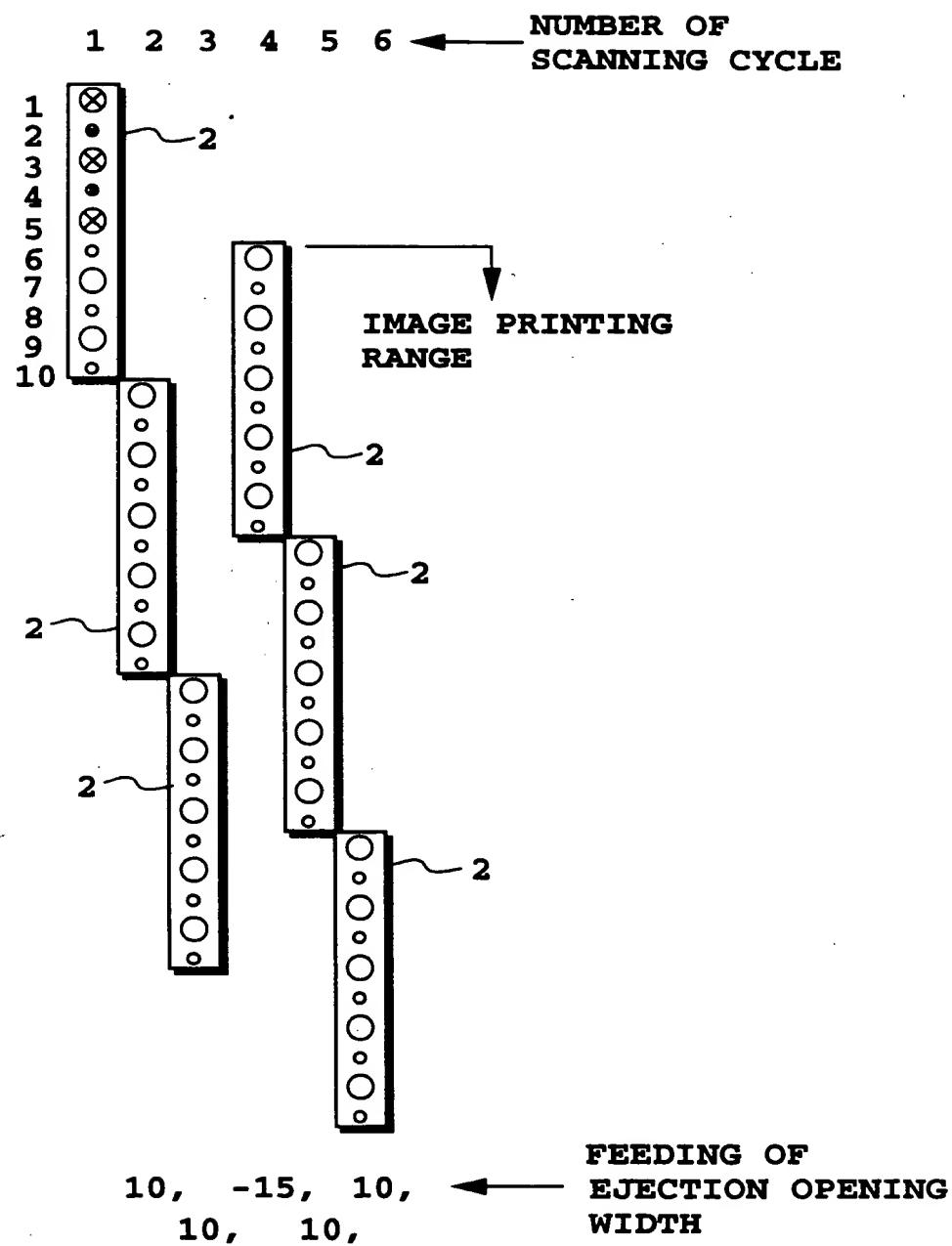


FIG.51

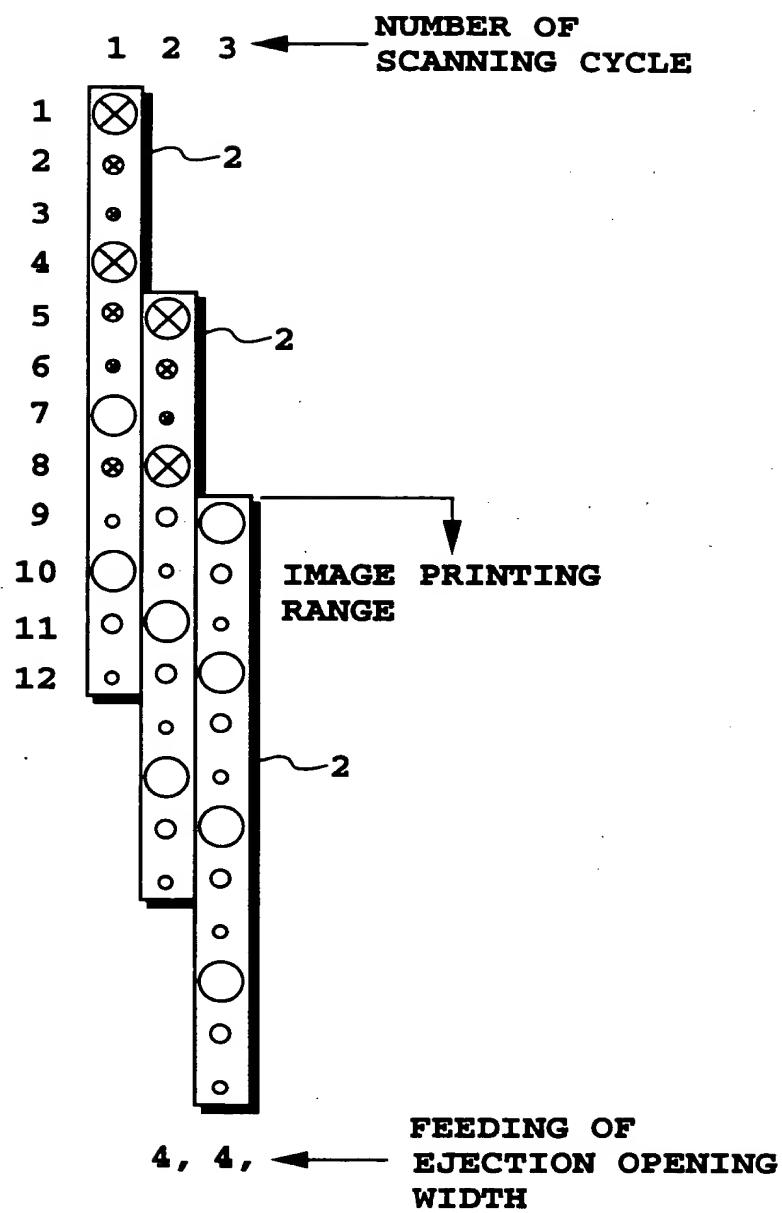


FIG.52

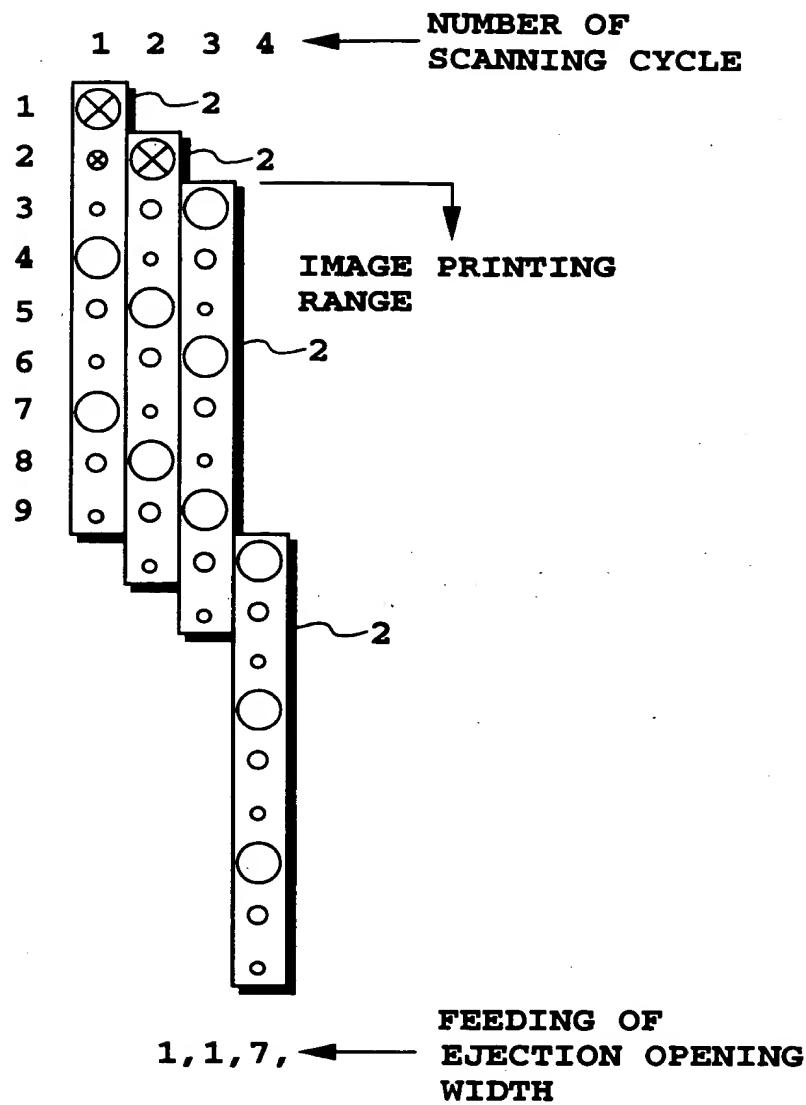


FIG.53

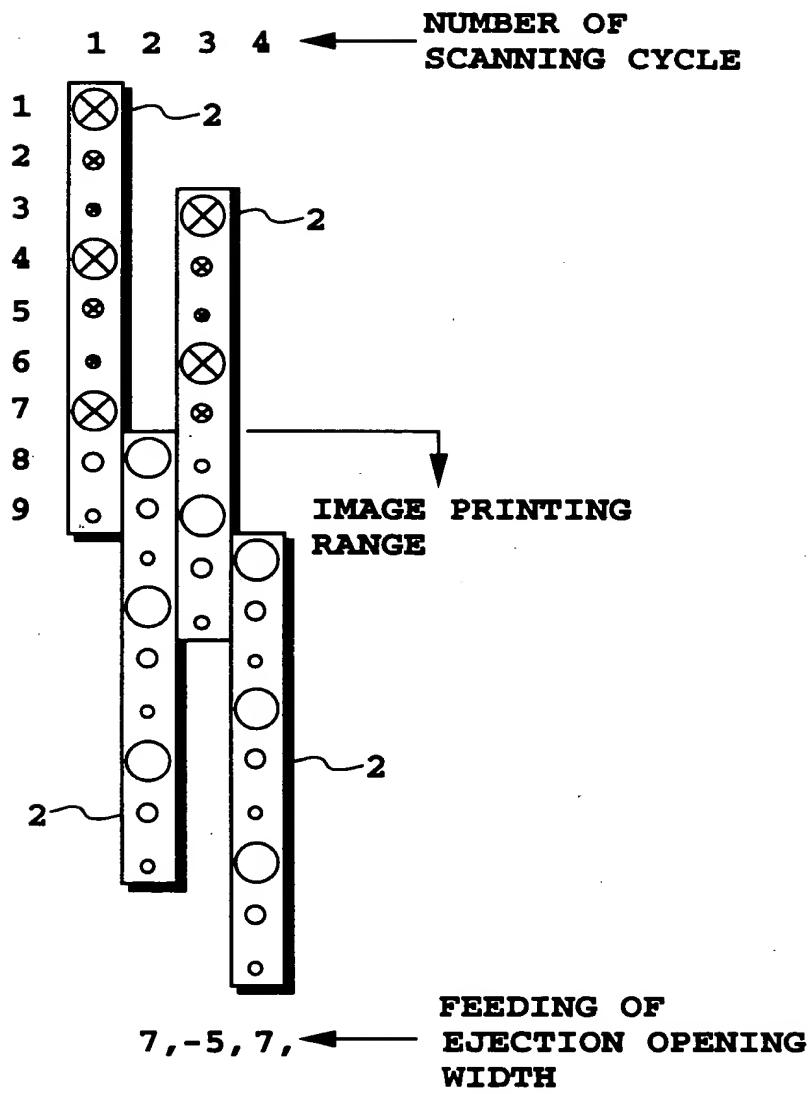


FIG.54

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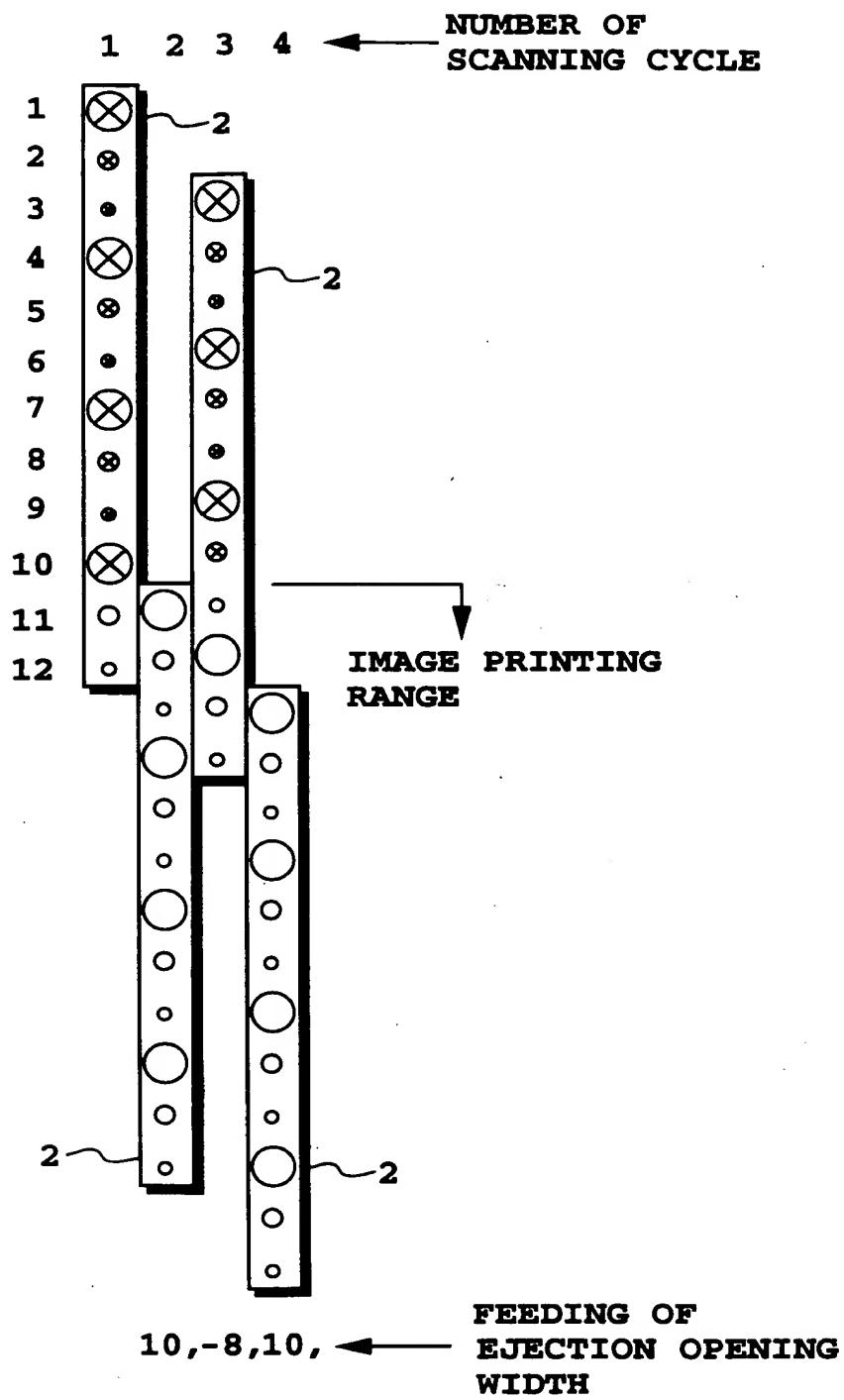


FIG.55

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NUMBER OF
SCANNING CYCLE

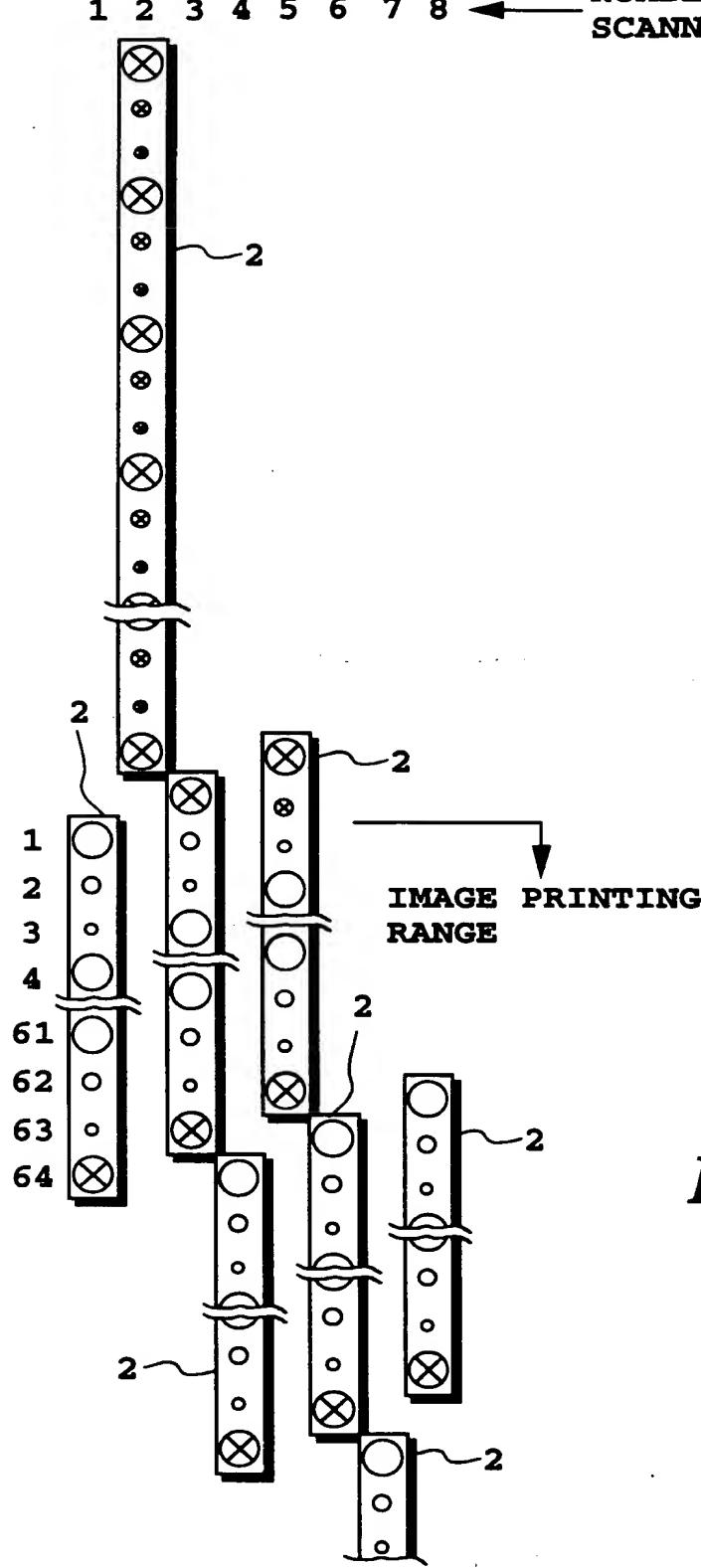


FIG. 56

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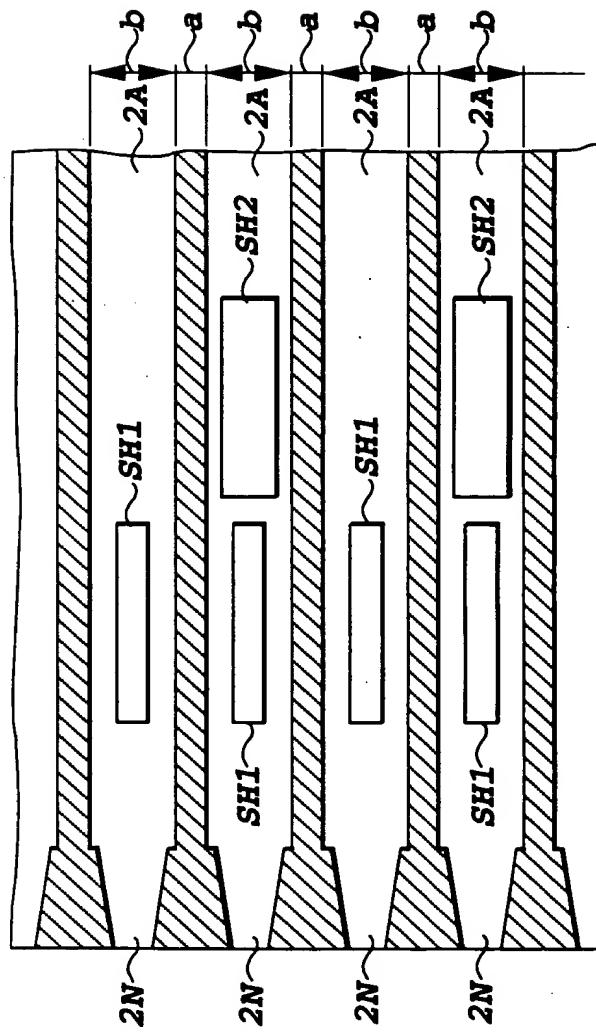


FIG.57A

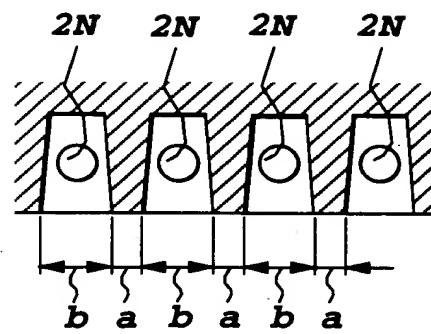


FIG.57B

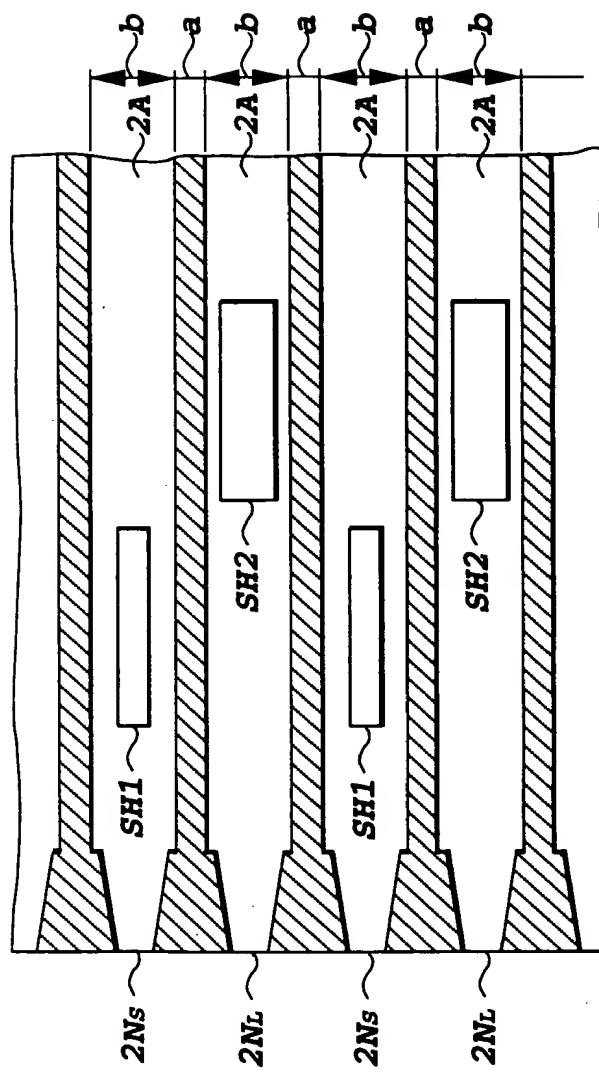


FIG. 58A

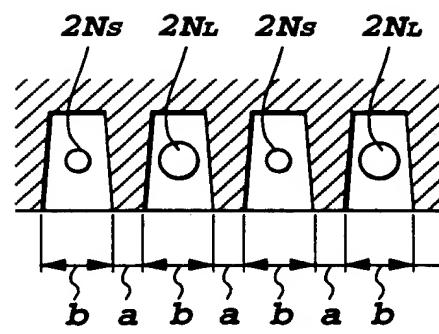


FIG. 58B

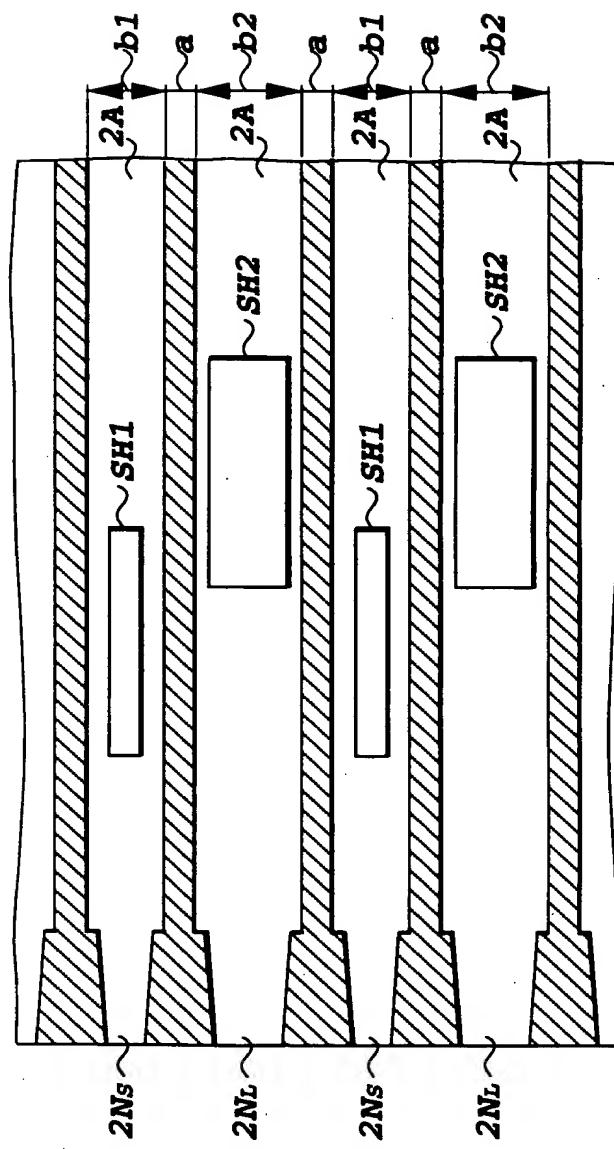


FIG. 59A

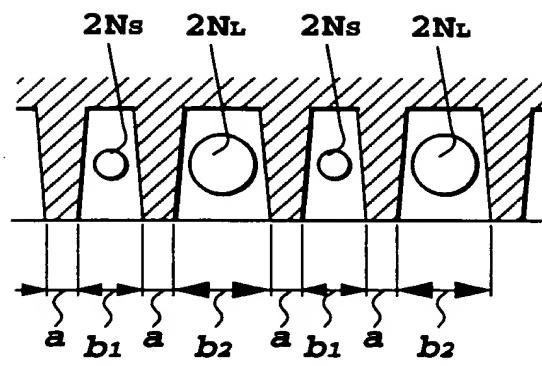


FIG. 59B

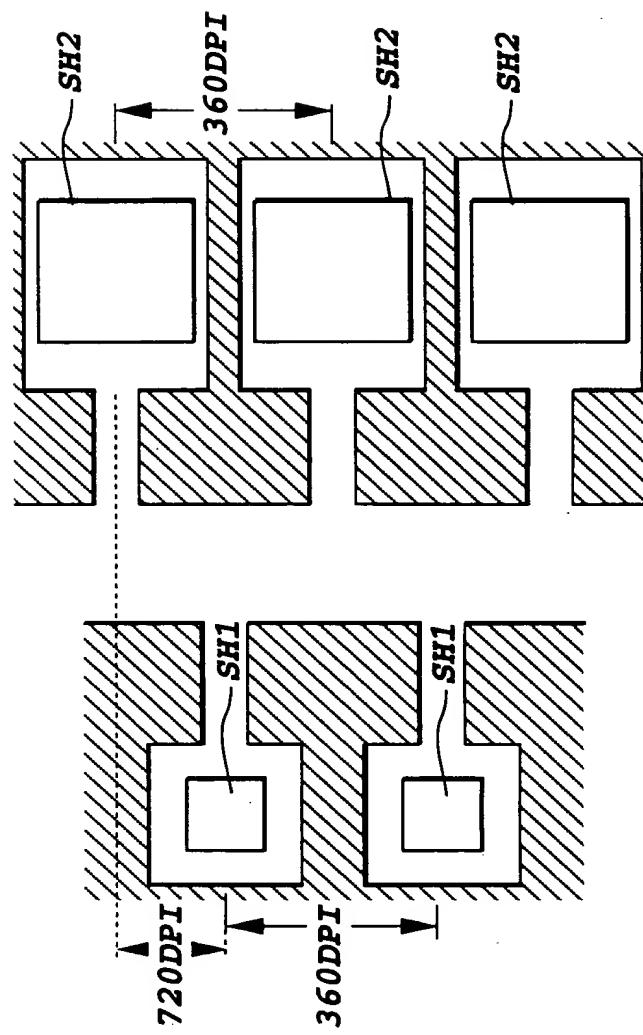


FIG.60A

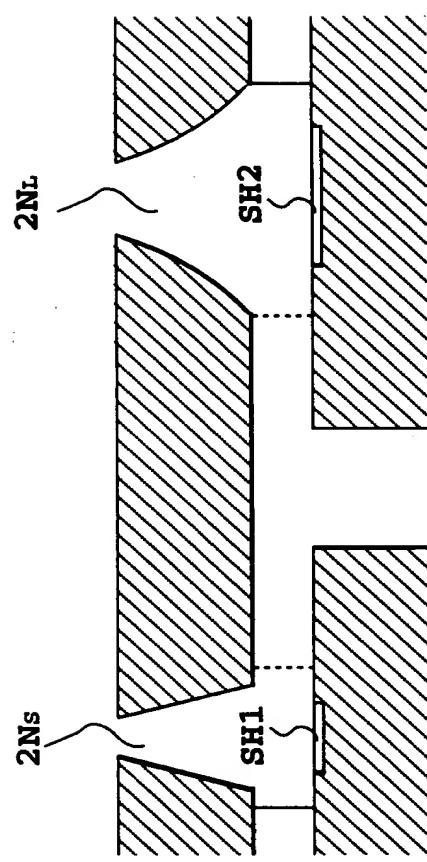


FIG. 60B

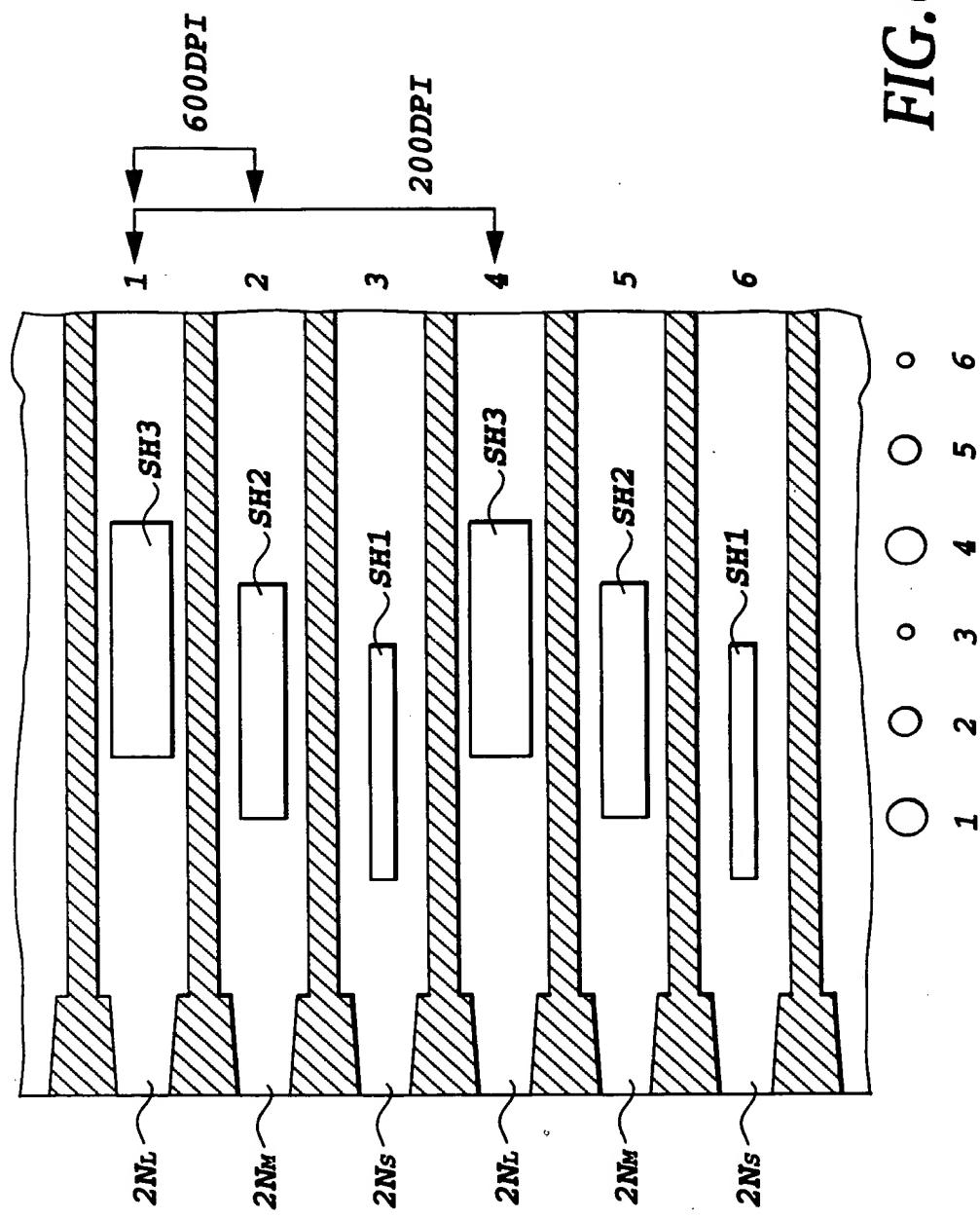


FIG. 61

FIG. 62

